UNIVERSITY OF LONDON

UNIVERSITY COLLEGE ANNUAL REPORT 1968-1969

UNIVERSITY COLLEGE
LONDON

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OFFICERS OF THE COLLEGE

CHAIRMAN OF THE COLLEGE COMMITTEE

THE RIGHT HON. LORD STRANG

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F. J. STEPHENS, M.A.

TREASURER

SIR BERNARD WALEY-COHEN, BT, LL.D., M.A.

PROVOST

THE RIGHT HON. LORD ANNAN

O.B.E., M.A., D.LITT., D.U.

VICE-PROVOST

PROFESSOR G. W. KEETON

M.A., LL.D., F.B.A.

SECRETARY

A. TATTERSALL, M.A.

REPORT OF THE CHAIRMAN OF THE COLLEGE COMMITTEE AND THE PROVOST

The past year has been as trying for universities as it has been for other institutions. The wintry financial climate has made University College subject itself to a fierce self-examination, in the hope that we can respond positively to changing circumstances, rather than allowing them to dictate to us.

The Financial Situation

The difficulties of operating within the closest of financial limitations were brought home most strongly during 1968–69. Departments had to keep expenditure to what it had been in the previous year, despite inflation and devaluation which increased the costs of goods and services. Furthermore, various salary awards, for example to technical staff, did not qualify for earmarked grants from the University Grants Committee. This, in fact, made it impossible to keep expenditure within the original budget limit for this item.

From the time the recurrent grants for the quinquennium were announced, it had been clear that the College would be unable to contain expenditure in the final year within the grant announced for 1971–72, but it had been hoped that total expenditure over the five-year period would be kept within the total income that could reasonably be expected. The delay until April 1970 in the effective date of the first supplementary grant for the quinquennium in partial compensation for increased costs unfortunately has made it less likely to achieve this overall balance. Unless universities can be assured that grants will be supplemented promptly to keep pace with rising costs, the task of academic planning and of financial administration becomes herculean. There are, however, hopeful signs. The UGC, which has never been unaware of this situation, is enjoying greater success than hitherto in persuading the Treasury to make good this inherent defect in the quinquennial grant system. If the UGC were to fail the whole system of quinquennial finance would be undermined.

To report upon the specific financial situation of the College, the income for 1968–69 amounted to £6,161,548, an increase of £470,855 over 1967–68. A surplus of £28,690 was reflected in the accounts of the College for the year, and this will appear to be somewhat in contradiction to the statements in the preceding paragraphs. The explanation,

however, lies in the fact that the basic problem faced by the College is to ensure that the annual commitments in the final year of the quinquennium can be contained within the grant available for that year. To have allowed recurrent expenditure to rise sufficiently to absorb the surplus could only result in a fundamental imbalance in the year 1971–72.

Expenditure in 1968–69 reached £6,132,858 inclusive of the cost of research borne by outside grants, which totalled £1,023,031 compared with £838,376 in 1967–68. The number of these grants reached 383, an increase of eight.

Capital grants announced for the year amounted to £333,140 compared with £1,368,185 in the previous year. Receipts against these and earlier capital grants in reimbursement of expenditure amounted to £810,623 compared with £1,775,361 in 1967–68.

In June came the long-promised visit by the officers of the Department of the Comptroller and Auditor General. It is good to report that they found nothing of any substance wrong with our arrangements, and their comments were in many ways constructive and helpful. Their visit was conducted in a way which dispelled any fears of Parliamentary interference with university policy.

Rationalisation

During the year the University has been urging the College and other Schools to see if they can prevent expenditure mounting or reduce establishments by 'rationalising' academic activities within the University. The University of London is, in fact, constituted to effect just such 'rationalisation', and much useful work has already been done by some departments in combining their resources in teaching and in seeing that expensive equipment is used to the maximum and is not regarded as the sole preserve of one College or School.

But it is far more difficult to make economies by reducing establishments. To concentrate and amalgamate a number of small departments scattered throughout the University into a lesser number of larger departments concentrated in two or three Colleges or Schools is easier said than done. It is not a simple operation. The difficulties in transplanting whole departments are formidable: lack of available rooms or laboratory space; the distance between Schools (or rather the difficulty of moving from one to another); and the fact that many University College departments are intricately bound up in their teaching and research with other departments in the College, are all difficulties which would have to be surmounted. Apart from the problem of tissue-rejection, there are usually good reasons why

particular subjects have developed ina particular College or School.

Staff and Establishment

We have made some progress, more particularly in the Humanities, towards the targets for student numbers set by the UGC and the Court of the University; and this, needless to say, has produced very natural demands from departments for staff increases, to maintain teaching and staffing standards. These we have been unable to satisfy, and there is some dismay at the probable erosion of small-group teaching. This College attaches great importance to this mode of teaching, and much of the success of our students is attributable to it. It may well be, too, that the absence of student disturbances, so far, within this College has been due to the close contact between staff and students which a reasonable staff : student ratio has facilitated. A deliberate policy of depressing the ratio could well have serious results on both counts.

If we are to take additional students with the same number of teachers, and if research is not to suffer unduly, we must do all we can to take unnecessary burdens off the backs of the teachers. More technical and more secretarial help would benefit our academic staff but it is becoming ever more difficult to provide such help. The salaries we are able to pay make it difficult to recruit or retain good clerical and secretarial staff. Our technical staff fared far better and got a seven per cent award allied to a job evaluation scheme which may increase their wages still further.

Academic salaries have also been raised, and one could wish that it were possible to write as cheerfully about this increase as about that of the technical staff. The manner in which they were raised caused offence as much because the Prices and Incomes Board, which handled the award for the first time, held curious views about such matters as teaching, as because the amount of the award was derisory. Skilful negotiations by the UGC in the end whittled away most of the more notorious proposals, so that, for instance, the proposal to abolish the London Allowance has been shelved.

Student Numbers

The total student population achieved a new record of 5,300, an increase of 233 (4·6 per cent) over the session 1967–68. The number of undergraduate students rose by 2·3 per cent to 3,474 and postgraduates by 9·3 per cent to 1,826, bringing the proportion of postgraduate students to more than one-third of the total. Part-time student numbers rose from 856 in 1967–68 to 995 in 1968–69, an increase of 16·2 per cent, to which the UGC pays little regard. A fall in the number

of overseas students by 4 per cent to 875 suggests that the substantial increase in fees for overseas students has so far not deterred these students from coming to this country.

In the session 1967–68 the intake of first degree and first diploma students had shown a reduction of 0·1 per cent. In 1968–69, however, a more normal situation was restored and the intake of these students rose by 14·4 per cent to a total of 1,221.

About 1,250 full-time students lived in halls of residence or other accommodation provided by the College or the University, an increase of 4 per cent over 1967–68 to 29 per cent of the total number of full-time students; 47 per cent were in lodgings, a reduction of 4 per cent; while 24 per cent lived at home. As regards full-time undergraduate students, 35 per cent were in halls of residence or other accommodation provided by the College or the University, 41 per cent were in lodgings, and 24 per cent lived at home.

The State of the Building Programme

At the beginning of the session the Central Collegiate Building, with its Collegiate Theatre, built with the help of a benefaction of £100,000 from the late Lord Marks and Messrs Marks and Spencer Ltd, was formally opened by Lord Sieff on 3 October 1968. The ceremony included a performance by the Royal Ballet Choreographic Group.

A development which will benefit all members of the College, and in particular the students, has been made possible by a generous grant of £85,000 from the Wolfson Foundation for a new building for the Student Health Centre. The building is being planned for a site on the north side of the College rectangle.

As anticipated in last year's Report, a number of projects were completed during the session: an extension to the upper part of the east elevation of the Biological Sciences Building, made possible by a generous grant from the Wellcome Trust; adaptations in the Medical Sciences Building, following the removal of the Thane Library to the D.M.S. Watson Library; and the first stage of the new Chemistry Building on the east side of Gordon Street, which the Department began to occupy in May 1969.

To the south of the Physics Building, the old Birkbeck Laboratory, a one-storey building used in recent years as workshops for the Department of Physics, was demolished, and the area paved for use as a car park with an electricity transformer chamber constructed under part of it. Major alterations were carried out in the students' Refectory to improve kitchen and servery facilities.

The second stage of the Whitcher Place development, which will provide a self-catering student house for 287 men and women students, and which is being financed by a donation from the Max Rayne Foundation, was begun during the session and is expected to be completed in June 1970. In Whitfield Street, work began on the building of an extension to Ramsay Hall. Planned to be completed in the summer of 1971, it will accommodate 195 men students. The building costs will be financed by a gift from the Anonymous Donor, his third major benefaction to the College for student residences.

Student Matters

Up to date there has been no disruption of College activities by militant students. Like every other university we have our militants, and no doubt our comparative calm here is partly due to luck. Everyone in university life knows that a few determined militants have no difficulty in manufacturing an issue and then setting light to it. But a succession of able, liberal-minded Presidents of the Union counts for much, and so, we hope, do the good relations between staff and students, which for years have existed here. There can be little doubt that the small size of most departments, a good staff-student ratio which permits small group teaching, and a highly developed tutorial system ensures that help and advice for students is easily to hand at departmental and faculty level. It may also be because the liberal tradition of the College has always given students total authority in the affairs of their Union, and a voice in discussions on committees at College level dealing with matters of particular concern to themselves. But that is not all.

In last year's Report we noted that serious consideration was being given to the representation of students on the College's Governing Body. Provision for two such representatives has now been made in the draft of new Statutes, and pending their approval, two students have been invited to join the College Committee as assessors. Owing to the incidence of the Union year, two generations of student officers have now sat on the Committee, and, as was expected, have been helpful, particularly in connection with consideration of student discipline regulations.

Furthermore, a complete cover of staff-student consultative committees is now in its second year of operation. These are based on departments, and are free to consider any matter of direct interest to them, including syllabuses and pedagogic effectiveness. Their conclusions are not binding, but they have in some cases opened up matters of considerable importance in an effective way, and they have proved

a useful means of ascertaining student opinion at grass-root level.

Discipline Regulations have been amended to give students full representation both on the Discipline Committee and on the Review (Appeals) Body. The Discipline Committee last met in 1952. Long may it continue to be idle.

Academic Matters

A number of new courses were introduced in 1968–69, teaching having begun for B.A. Degrees in German and Swedish and in German and Norwegian, for the B.Sc. Degree in the Faculty of Economics in International Relations, and for the College Certificate in English and American Law. On the postgraduate side, courses commenced for the M.Sc. Degree in the Faculty of Engineering in Naval Architecture, the University Diploma in Western European Archaeology, and the College Diploma in Naval Architecture. The English Department has secured University approval to a radical re-design of the B.A. Honours course in English which will begin in 1970. The new B.Sc. has now run its first full three-year course, and the complicated examination schedule and the procedure for the award of honours both functioned smoothly.

The main change, however, which will become effective next session, has been the decision to combine the Bartlett School of Architecture and the Department of Town Planning to form the nucleus of a single School of Environmental Studies. This development sweeps away what was becoming a more and more artificial barrier between the two subjects, and makes it easier to preserve a balance between different aspects of these subjects. The School will function under the wing of a new Faculty of Environmental Studies whose membership will include, besides the staff of the School, a number of teachers with cognate interests from other departments, notably Political Economy, Geography, and Civil Engineering. Professor Lord Llewelyn-Davies is becoming Dean of the new Faculty, and when Professor Lord Holford retires shortly will move to the Chair of Urban Planning. An important recruit to the new School will be Professor G. P. Wibberley, who has accepted the new Ernest Cook Chair of Countryside Planning, to be held jointly at Wye College and at University College.

During the session, the College has been considering the effect of the proposals in the Todd Report, associated in a sense with the rationalisation movement, for combining medical schools in London into larger units, each with a link, if possible, with a multi-faculty institution where the basic sciences are taught. For this College, an amalgamation

with the Royal Free Hospital School of Medicine and with University College Hospital Medical School is proposed; the link with the basic sciences already exists here, and in fact underlies the teaching of our medical students in a valued way. The Todd proposals came at a time when we were already considering with UCHMS a changed and integrated medical curriculum and a close relationship between the two institutions. The addition of the RFHSM raises fresh problems, not least of accommodation. We have vigorously opposed proposals to operate a campus split between Gower Street and Hunter Street, where the RFHSM's departments are quite inadequately housed. The three institutions all believe that a single medical school in or very close to Gower Street is the only acceptable answer; and the outcome of the Todd proposals, so far as we are concerned, appears to hinge on the availability of a site in the immediate vicinity which would, together with buildings already used for medical education, accommodate an intake of over 200 medical students per year.

The Department of Scandinavian Studies, the oldest department of its kind in the United Kingdom, celebrated its Jubilee at the beginning of the session. A reception was held on 28 October 1968, when an appeal for funds to promote the study and teaching of modern Nordic history was launched, and a series of Special University Lectures was held at the College during the first term (see page 99).

The Department of Psychology welcomed the establishment of a formal association with the Medical Research Council's newly-established Developmental Psychology Research Unit, which it envisaged would benefit considerably the Department's teaching and research in this area.

During the session, two departments modified their names in order to show how their interests were developing. The Department of Botany added 'Microbiology' to its title, and the School of Librarianship's full title is now 'School of Library, Archive, and Information Studies'.

When three years ago the College reconsidered its constitution as a prelude to drafting new Statutes, it was agreed that non-professorial staff should have greater representation on the College Committee and on the Professorial Board. As an interim measure, pending the approval of new Statutes, the College Committee has approved the appointment of additional representatives with the status of assessor. In this way, the number of elected representatives of the non-professorial staff has been increased from one to three on the College Committee and from nine to forty-eight on the Professorial Board.

A list of publications by members of the various departments will

be found on pages 27–83. This is an impressive record and no attempt is made here to summarise the research projects on which the departments have been engaged during the session, many of which have attracted substantial grants from Research Councils and other grant-giving bodies.

The College held in March 1969 its third conference of Headmasters and Headmistresses. These conferences are proving most helpful on both sides, giving Heads a better idea of what the College offers and also improving personal links between Schools and Heads and Tutors of College departments.

The 1969 Foundation Oration was delivered by Paul Johnson in the Collegiate Theatre on Tuesday 18 March. The subject of his oration was 'The Next Hundred Years'.

Musical Activities

Besides its customary activities the Music Society, with backing from the College, put on an enterprising series of lunch-time concerts, the backbone of which was provided by four recitals by the Vesuvius Ensemble in a special association with the College. These were all well attended, and this development is a welcome supplement to the lunch-time lecture programme. It has given much pleasure to both students and staff.

Association of Friends of University College London

At a time when the resources of the Association of Friends of the College were limited, the session 1968–69 brought forth a large number of proposals for money for much needed amenities to enhance the corporate life of the College. The Friends have undertaken to provide grants for the following projects, amounting in total to £5,515: furnishing the galleries in the Central Collegiate Building (£1,750); folding screen in the Refectory extension to the Central Collegiate Building (£740); furnishing the northern half of the South Cloisters, and replacing the carpet and supplying additional armchairs in the North Cloisters (£2,020); teak seats for the South Quadrangle (£225); improving and supplementing the furnishings in the Joint Staff Common Room (£650); smaller items for Common Rooms and Ramsay Hall (£80); maintenance of Film Society's film record of College affairs (£50).

STRANG, *Chairman*
ANNAN, *Provost*

SUPPLEMENT

HONOURS AND DISTINCTIONS

In the New Year Honours in 1969 the K.B.E. was conferred on the Very Rev. Rabbi Israel Brodie, Fellow of the College, for services to British Jewry. Those created Knight Bachelor were Mr Max Rayne, Honorary Fellow of the College, for services to the Arts, Professor B. Katz, Head of the Department of Biophysics and Fellow of the College, and Cho Yui Kwan, a former student in the Faculty of Laws, for voluntary public service in Hong Kong. The C.M.G. was conferred on K. C. Christofas of the Foreign and Commonwealth Office, a former student in the Faculty of Arts, and the C.B.E. on Dr G. F. Marrian, Fellow of the College, and lately Director of Research, Imperial Cancer Research Fund. Former students who also received the C.B.E. were Dr J. Apley, lately Head of the British Paediatric Team in Saigon, W. K. Armitage, sculptor, J. C. Hanbury, for services to the pharmaceutical industry and to the Health Service, R. H. C. Holland, Deputy Chairman of Sir Isaac Pitman and Sons Ltd, and D. R. Mackintosh, Chairman of the Executive Committee, Voluntary Service Overseas.

In the Queen's Birthday Honours Dr I. W. Wark, Fellow of the College, was created a Knight Bachelor, for distinguished services to education and science. The C.B.E. was conferred on Dr E. S. de Beer, Fellow of the College, for services to the Arts, on Professor W. B. Emery, Edwards Professor of Egyptology, and on the following former students: Professor E. C. Amoroso, for services to veterinary physiology, S. C. G. Bach, British Council Representative in Iran, Dr W. P. Grove, Director of the Radiochemical Centre, and H. E. Marking, Chief Executive of British European Airways.

The Order of Merit was bestowed by the Queen in July 1969 on Dame Veronica Wedgwood, Honorary Fellow of the College and Special Lecturer in the Department of History.

A number of interesting and important appointments were announced during the session. Appointments of members of the College included those of Professor D. Lewis to serve on the University Grants Committee, Dame Veronica Wedgwood and Dr Mary Woodall as Trustees of the National Gallery, Professor Lord Lloyd as Chairman of a planning committee set up to advise the Secretary of State for Education and Science on the steps to be taken for the establishment of a National Film School, and Professor Sir William Coldstream and Lord Goodman as members of that committee. Among appointments of former College staff were those of

Professor T. J. B. Spencer to the National Theatre Board and Dr F. A. Vick as Chairman of an Academic Advisory Council to advise the Government on the education of Service Officers. Appointments of former students included: R. A. G. Dunkley, Director of northern Europe operations for Honeywell Computer control division, R. M. Glazebrook, Director of the Whitechapel Art Gallery, Lord Hall, Chairman of the new Post Office Corporation, J. S. Rooke, Minister (Economic) at the British Embassy in Paris, Professor W. A. C. Stewart, Chairman of the Universities Council for Adult Education, and T. G. P. Weiler, member of the committee set up by the Home Secretary to advise the Government on a programme of research into race relations in Britain.

Sir Charles Goodeve, Fellow of the College, was appointed a Vice-President of the Royal Society and was elected to the Council, Professor Sir Bernard Katz also became a Vice-President as well as being elected Biological Secretary, and T. A. L. Paton, Fellow of the College, Professor R. L. F. Boyd, and Dr P. Fatt were all elected to Fellowships of the Society. Professor E. W. Handley was elected a Fellow of the British Academy. Lord Tangley, Honorary Fellow of the College, became an Honorary Fellow of Darwin College, Cambridge. Professor R. G. Hopkinson was elected to an Honorary Fellowship of the Royal Institute of British Architects, Professor D. Lewis became President of the Genetical Society, Professor A. G. Ling, Fellow of the College, President of the Town Planning Institute, and D. T. Richnell, a former student of Librarianship, President of the Library Association. B. A. P. W. Lewis, a former Architecture student, was elected Master of the Fletchers' Company.

Sir Frederick Warner, Fellow of the College, was elected President of the Fédération Européenne d'Associations Nationales d'Ingénieurs, Professor P. G. Foote a member of Kungl. Humanistiska Vetenskapssamfundet i Uppsala, and Dr A. Wassermann had the title of Professor Emeritus conferred upon him by the University of Karlsruhe.

Honorary degrees of other universities were conferred on members of the College as follows: the Docteur *honoris causa* of the University of Nancy on Professor M. A. K. Halliday, the D.Sc. of the University of Hull on Professor Sir Christopher Ingold, the D.Tech. of Brunel University on Dr F. E. Jones, the D.Sc. of the University of Aston and the D.Sc. of The City University on Sir Arnold Lindley, the D.Sc. of the University of Bath and of the University of Oxford on Professor Dame Kathleen Lonsdale, the Doctor of Philosophy *honoris causa* of the University of Helsinki on Professor W. R. Mead, the D.Sc. of The City University on Professor Sir Ronald Nyholm, a doctorate

of the University of Stirling on Lord Robbins, the D.Sc. of the University of Wales on Sir Max Rosenheim, the D.Tech. of the University of Bradford on Sir Frederick Warner, and the Litt.D. of the University of Liverpool on Sir Mortimer Wheeler. Honorary degrees were also conferred on the following former members of staff of the College: the D.Litt. of the University of Oxford on Sir Denis Brogan and on Professor E. H. Gombrich, and the D.Sc. of the University of Exeter on Sir Peter Medawar; and on the following former students: the D.Litt. of the University of Wales on C. A. Gresham, the D.Sc. of the University of Bath on Dr R. W. Revans, and the D.Lit. of the University of Edinburgh on Dr Frances A. Yates.

Professor R. E. D. Bishop was awarded the Křížík Medal of the Czechoslovak Academy of Sciences, Dr M. Gerloch the Meldola Medal for 1968 of the Royal Institute of Chemistry, Professor D. V. Lindley the Guy Medal of the Royal Statistical Society, and Sir Frederick Warner the Gold Medal of the Czechoslovak Society for International Relations. Dr N. O'Connor received the Joseph P. Kennedy Jr Foundation Award for his work on mental retardation, and the late Professor Roberto Weiss was awarded the British Academy Serena Medal for Italian Studies for 1969.

APPOINTMENTS

Lady Walton and Dr H. B. Wright were appointed to membership of the College Committee in the course of the year, both on the nomination of the Inner London Education Authority.

Within the College, at the beginning of the session, Professor E. W. Handley, formerly Professor of Greek and Latin in the College by conferment of title, was appointed to the Chair of Greek and the Headship of the Department, Professor D. W. J. Johnson came to the Chair of French History from the University of Birmingham, where he was Professor of Modern History, and Professor Randolph Quirk, who previously held the Chair of English Language at the College, was appointed to the Quain Chair of English Language and Literature and the Joint Headship of the Department. Dr W. Beckerman, Fellow of Balliol College, Oxford, who had been on leave of absence from Balliol College since 1967 as the Economic Adviser to the Board of Trade, was appointed to the Chair of Political Economy and the Headship of the Department from 1 January 1969, and took up his duties in September, at the end of his term of office with the Board of Trade. Members of the non-professorial staff who became professors by conferment of title were B. B. Boycott (Zoology),

Dr A. G. Davies (Chemistry), Dr M. Stone (Probability and Statistics). William Townsend (Fine Art), and Dr A. P. Willmore (Physics). The following were appointed to established Readerships: Dr Valerie Pearl, formerly of Somerville College, Oxford (The History of London), and Dr W. K. Taylor, previously Reader by conferment of title (Electrical Engineering); and the title of Reader was conferred on Dr J. M. T. Thompson (Structural Mechanics). Professor Elizabeth M. Wilkinson relinquished the Headship of the Department of German, after holding it for seven years, and was succeeded by Professor W. Schwarz.

The following Visiting Professors were appointed during the session, under the scheme introduced in 1967: Professor S. T. Ariaratnam, Head of the Civil Engineering Department, University of Waterloo, Ontario (Civil and Municipal Engineering); Professor D. P. Craig, Professor of Physical and Theoretical Chemistry in the Institute of Advanced Studies of the Australian National University in Canberra (Chemistry); Dr F. E. Jones, Managing Director, Mullard Limited (Electronic and Electrical Engineering); Professor C. Kellenberg, Professor of Law, Notre Dame Law School, Indiana (Laws); Professor A. M. Parry, Professor of Classics, Yale University (Greek); Dr G. Pontecorvo, Imperial Cancer Research Fund Laboratories (Zoology and Comparative Anatomy, and Botany and Microbiology); Dr M. G. P. Stoker, Director of Research, Imperial Cancer Research Fund Laboratories (Zoology and Comparative Anatomy, and Botany and Microbiology); Dr R. Wilson, Head of the Science Research Council Astrophysics Research Unit at the Culham Laboratories (Physics).

At the beginning of the session there were some changes in Faculty appointments: Professor P. E. Corbett became Dean of the Faculty of Arts and Professor E. H. Scamell Vice-Dean of the Faculty of Laws; and Dr C. J. Holdsworth was appointed Sub-Dean of the Faculty of Arts.

The post of Senior Tutor was retitled 'Dean of Students' and filled at the beginning of the session by the appointment of Professor D. C. Holland. At the end of the session, on the retirement of Mrs Olive D. Maguinness, the Tutorship to Women Students was replaced by the post of Student Counsellor, to which Miss Patricia Milner was appointed.

Many members and former members of the College obtained academic appointments outside the College during the year. Lord Evans was appointed President of the University College of South Wales and Monmouthshire, Cardiff, Dr L. Rotherham became Vice-

Chancellor of the University of Bath, Professor R. Milnes Walker was appointed Director of Surgical Studies at the Royal College of Surgeons, and Sir Solly Zuckerman to an honorary Chair at the University of East Anglia.

Members of the academic staff who obtained appointments were: Professor A. H. Chilver as Principal of the College of Aeronautics, Cranfield, Dr R. T. Green as Professor of Psychology in the Open University, Professor G. W. Keeton as Professor of English Law in the University of Notre Dame, Indiana, Dr I. M. Lewis to the Chair of Anthropology at the London School of Economics, Professor J. Lewis as Firth Visiting Professor of Chemistry in the University of Sheffield for 1969–70 and as Professor of Chemistry in the University of Cambridge from October 1970, Dr D. Skevington to the Chair of Geology at University College, Galway, and Dr I. M. Stephenson as Professor of Electronics at University College of North Wales, Bangor. Miss Audrey G. Donnithorne was appointed Professorial Fellow in the Department of Economics, Research School of Pacific Studies in the Australian National University. Dr F. R. Stannard was appointed Reader in Physics in the Open University, and the title of Reader in Genetics was conferred on Dr R. J. Berry by the University of London in respect of his post at the Royal Free Hospital School of Medicine.

Announcement was made during the year of the appointment of the following former members of the academic staff and former students to academic posts outside the College: Professor O. R. Marshall as Vice-Chancellor of the University of the West Indies, Professor J. H. Kellgren as a Pro-Vice-Chancellor of the University of Manchester, Dr B. C. Abbott as Director of the Allan Hancock Foundation and Chairman of the Department of Biological Sciences in the University of Southern California, Professor L. Brent to the Pfizer Chair of Immunology at St Mary's Hospital Medical School, Dr A. J. Cole to the Chair of Computational Science in the University of St Andrews, Dr F. W. A. George to the Chair of French at St David's College, Lampeter, Dr R. M. Pengelly as Professor of Computer Science and Dr O. Penrose as Professor of Mathematics in the Open University, and Dr F. J. Stopp to the Chair of German in the University of Birmingham. The University of London conferred the title of Professor of Cellular Biology and Histology on Dr C. L. Foster, St Mary's Hospital Medical School, and the title of Professor of Pharmacognosy on Dr E. J. Shellard, Chelsea College of Science and Technology. Dr Betty I. Roots was appointed Associate Professor of Zoology in the University of Toronto. Dr D. Crystal was appointed Reader in Linguistic Science in the University of Reading, and

Dr L. J. Newson Reader in Child Development in the University of Nottingham. The title of Reader was conferred by the University of London on Dr E. R. Huehns (Haematology), University College Hospital Medical School, on Dr R. P. Michael (Behavioural Physiology), Institute of Psychiatry, and on Dr T. A. Sears (Neurophysiology), Institute of Neurology; by the University of Leeds on Dr M. P. Crosland (History of Science); and by the University of Lancaster on S. S. Hussey (English) and on H. W. Wardman (French Studies).

RETIREMENTS

Once again we have to report the retirement of a number of colleagues who have rendered outstanding service to the College.

Professor T. Estermann retired after a continuous period of forty years in the Department of Mathematics. After studying mathematics at Hamburg and Göttingen, he came to the College as a research student in 1926 and joined the staff of the Department as an Assistant in 1929. The title of Reader in Mathematics was conferred upon him by the University in 1940, and that of Professor of Mathematics in 1965. He is distinguished for his many contributions to the Theory of Numbers and, even among mathematicians, he is noted for the extreme accuracy of his thoughts and writings. He has remained an inspiring and most patient teacher. As an Emeritus Professor of the University, and by his appointment as an Honorary Research Associate in the Department, he will be maintaining his long association with the College.

Professor Daryll Forde, who was first a student and then a member of staff in the Geography Department at the College, went on to prehistoric archaeology, and thence to anthropological field research in Arizona and New Mexico in 1928–29. In 1930 at the age of twenty-eight he became Professor of Geography and Anthropology in the University College of Wales, and during his tenure he also carried out distinguished fieldwork in Eastern Nigeria. He was appointed to the new Chair of Anthropology at University College in 1945. Before the war, G. Elliot Smith and W. J. Perry in the Anatomy Department had represented anthropology in the College, and it was fitting that their interest should have culminated in the appointment of a man who was himself a master of several related fields of scholarship. His first book, *Habitat, Economy and Society* (1934), has become a classic demonstration of the comparative approach in social anthropology and human geography. As a teacher

he was always against the narrow approach and defended the value of combined undergraduate studies in social, cultural, and physical anthropology with archaeology. His publications include a long list of West African ethnographic studies with excursions into economics and history. Professor Forde became Director of the International African Institute in 1943 and its growth since then is a tribute to his energy and administrative skills. In addition to editing *Africa*, he launched an *Ethnographic Survey* of indigenous African societies, and since 1948 nearly sixty volumes have been published. His work at the Institute will continue, and with his appointment as Honorary Research Associate he will be maintaining his association with a department which he created and in which most members have done research in Africa. He was elected to a Fellowship of the College in 1946, a Fellowship of the British Academy in 1966, and the University conferred on him the title of Emeritus Professor in 1969.

Professor Raymond Irwin retired from the Chair of Library Studies and the Directorship of the School of Librarianship and Archives. He was appointed in 1945 to succeed J. D. Cowley as Director of the School, after earlier succeeding him in the post of County Librarian of Lancashire. Professor Irwin's professional career began in fact at the age of twenty-two, with his appointment as County Librarian of Northamptonshire, and he played a leading part in the affairs of the Library Association for many years. He served on its Council for long periods, was its Secretary for seven years, Chairman of its Research Committee during a time of significant change, and President of the Association in 1958. His professional writing has achieved international recognition, particularly in the field of library history, where his pioneer studies have inspired a group of ex-students and colleagues to develop this neglected field systematically. His direction of the School has been characterised by patience and foresight, kindliness and tactfulness, and a willingness to permit maximum freedom of study to staff and students alike. Under him, the School has developed librarianship, archive, and information studies at all postgraduate levels, in ways that provide for individual programmes for all students, to match their academic and professional experience, interests, and career intentions. Colleagues in the new post-war schools of librarianship have acknowledged their indebtedness to Professor Irwin. The University has conferred on him the title of Emeritus Professor.

Professor G. W. Keeton retired at the end of the session after a very long and distinguished career at the College as Professor of English Law and Head of the Department of Laws. He first joined

the College in 1931 as Reader in English Law, after holding appointments in Hong Kong and Manchester Universities, and became Professor of English Law in 1938 and Head of the Department of Laws in 1945. Although the study of law has formed an important part of College activities from the foundation of the College, its first law professor being John Austin, developments in recent years can really be said to have placed legal studies in the College on an entirely new footing. The Department has since the end of the last war grown into one of the largest and most important law schools in the country, and this development has manifested itself not only in the great increase in student numbers, both undergraduate and postgraduate, but also in the comprehensive range of studies taught and in which research has been conducted. Of these developments Professor Keeton has been without question the real architect and the present position and prestige of the Department of Laws have been the result of his foresight, energy, and initiative. At the same time, Professor Keeton, despite all his departmental duties, has achieved recognition as a distinguished scholar in many varied fields, as his numerous publications sufficiently testify. Apart from his special field of Equity, upon which he has published standard text-books, he has also published important contributions on international relations, legal history, political and current affairs, Shakespeare and the law, to give only examples of his extraordinary versatility. He was honoured by election to a Fellowship of the British Academy in 1964, and the University conferred on him the title of Emeritus Professor in 1969. But above all what needs to be recalled is the deep interest and affection which he has always shown towards all his students, and the extent to which these feelings have been reciprocated by students from all over the world, many of whom still maintain contact with him. Nothing could exceed the warmth and friendliness of his relations with his colleagues. They have always received from him the fullest possible encouragement and the successful careers of many of those who have worked under him have been due in no small measure to his inspiration and support. Professor Keeton also played a key role in the administration of the College, which was signalised by his appointment during the last three years as Vice-Provost. Just before his retirement he was responsible for introducing for an experimental period of three years an arrangement whereby a group of American law students from Notre Dame University come to the College for a year's study in Anglo-American Law, and it is a particular source of gratification to all his colleagues that Professor Keeton has been appointed Director of Studies for these students, and accordingly still remains with us in that capacity.

The Department of History and Philosophy of Science has suffered a severe loss by the retirement of Dr Angus Armitage. He entered the College as a student in 1920 and obtained a first class Honours degree in Astronomy. In 1927 he became a member of the staff of the Department, where he has been responsible for the teaching of the history of astronomy and of Greek mathematics and for directing research in these subjects. The title of Reader in History and Philosophy of Science was conferred upon him in 1957. Dr Armitage was for many years Secretary of the Board of Studies in the History and Philosophy of Science, while outside the University he has been a Vice-President of the British Society for the History of Science, Chairman of the Library Committee of the Royal Astronomical Society, and a member of the Commission for the History of Astronomy appointed by the International Astronomical Union. His exact scholarship and his many publications have brought him a high reputation everywhere among historians of science; and his eminence as a Copernican scholar has added to the reputation of the Department in which he has worked. He will be greatly missed both as a distinguished scholar and as a loyal and amiable colleague.

Dr A. Wassermann, Reader in the Department of Chemistry, retired at the end of the session. An Austrian by birth, he first came to University College from Germany in 1933 and, apart from a year at Southampton and war service first at Imperial College and then with the Ministry of Home Security and the Ministry of Supply, he has been here ever since. He was appointed Lecturer in 1950 and Reader in 1957. A modest and unassuming man, Dr Wassermann is well known in the Chemistry Department for his enthusiasm for tennis, a game which he still plays all the year round, and for his dedication to his work. An enthusiastic research worker, his studies have over the years included topics taken from most branches of chemistry (and occasionally beyond) although he is probably best known for his work on polymers and polyelectrolytes. He is well known internationally, and his work has been acknowledged by several honours. These have included the rare distinction of his appointment in 1957 by the West German government to the honorary title of Professor Extraordinary, and the conferring on him of the title of Professor Emeritus in 1969 by the University of Karlsruhe. With his appointment as Honorary Research Associate, Dr Wassermann will be continuing his work and his association with the Chemistry Department.

The retirement of Mrs Maguinness on 30 September 1969 marks a major change in College policy: the appointment of Tutor to Women

Students comes to an end after fifty-seven years, Winifred Smith having first held the office here in 1912. Olive Maguinness, Doctor and Master of Science, became Tutor to Women Students at the College in 1956, after a teaching career at Birmingham, Sheffield and, latterly, at Queen Elizabeth College, London. Throughout her thirteen years here her main aim was to meet and know as many as possible of the women students who last session numbered over one thousand, and in her they knew that they had a ready and accessible friend. She was always particularly concerned with the special problems of those from overseas. Much of her work, by its very nature, could not be known except to those who benefited by it; but her tireless energy and devotion to her job, and her determination always to make time for those who needed her friendship or advice, caused her to work at all hours in the College, regardless of herself, and made for her a very large number of friends who will greatly miss her.

R. L. Gregory retired after fifty years' service with the College administration. Appointed in 1919, he became Senior Clerk in charge of the College Office in 1927, after serving in a number of departments, and Superintendent of Office Services in 1960. His work brought him into contact with all sections of the College, and he will be remembered for his helpful and common-sense approach to the many and varied problems that came his way. Always forward-looking and receptive of new ideas, he was solely responsible for the establishment and continual development of the College's duplicating section and copying services. In the years before the war his efforts as publicity manager for the Dramatic Society's annual production of the 'Little Plays of St Francis' contributed to their success, while since the war his work for the College Dining Club has done much to bring together past and present members of the College, both staff and students. He will be missed in Gower Street, but happily he continues to serve the College in a part-time capacity at the Mullard Space Science Laboratory at Holmbury St Mary.

RESIGNATIONS

During the session the College Committee lost the services of two of its members. Dr J. C. Hawksley had been a member of the Committee since 1963, and in addition had given valuable service as Chairman of the Student Health Association Committee for nearly six years, as well as being a member of other committees for many years. Sir Harold Shearman was appointed to the College Committee on the nomination of the Inner London Education Authority, and had been a

member since 1966. The College Committee recorded its appreciation of their services to the College.

At the end of the session Professor A. F. Huxley resigned from the Jodrell Chair of Physiology, which he had held since 1960, in order to take up a Royal Society Research Professorship. Professor Huxley's Research Professorship will be attached to the College, and he will continue to work in the Department of Physiology. The University has conferred on him the title of 'Professor of Physiology'.

OBITUARY

We record with regret the death during the year of a number of members and former members of the College.

Among them were seven Fellows of the College, including Emeritus Professor H. Hale Bellot, a Fellow since 1932, who was Commonwealth Fund Professor of American History from 1930 to 1955 and Vice-Chancellor of the University of London from 1951 to 1953. He joined the staff of the Department of History in 1921, became Reader in Modern History at Manchester in 1927, and returned to the College three years later as the first holder of the Chair of American History. Professor Bellot played an active and important part in the affairs of the University, and among his many services to the College were his preparation of the centenary history, *University College London 1826–1926*, and the creation of the American History Library.

Other Fellows of the College who died during the year were H. W. Chapman, the Senior Fellow, who was elected in 1906; Professor W. E. Collinson, Emeritus Professor of German in the University of Liverpool; Professor D. V. Davies, Professor of Anatomy at St Thomas's Hospital Medical School; Dr D. G. James, formerly Vice-Chancellor of the University of Southampton; Sir Arthur S. MacNalty, formerly Chief Medical Officer, Ministry of Education and Ministry of Health; and Professor F. Norman, formerly Professor of German, King's College London, who was a student of German at University College from 1919 to 1924, a member of the staff of that Department from 1922 to 1937, and Reader in German from 1930 to 1937.

The College lost by death four members of its academic staff.

The untimely death of Professor J. G. Weiss, on 7 September 1969, was a grievous loss to the Department of Hebrew and Jewish Studies. Born in Budapest in 1918, he left Hungary shortly before the outbreak of the Second World War to study history, philosophy, medieval Jewish literature, and Jewish mysticism at the Hebrew University. His teachers, themselves eminent representatives of Western-

European scholarship, soon recognised in him a student of outstanding ability. In 1951, having been awarded the much coveted Warburg Fellowship in Jewish Studies, he came to Oxford where only a year after his arrival he became a Spalding Scholar. In 1953, he joined the Hebrew Department of University College London as Assistant Lecturer, the title of Reader in Hebrew was conferred on him in 1961, and that of Professor of Jewish Studies in 1967. For a time he was also Research Fellow at the Institute of Jewish Studies, Manchester. When in 1959 it was transferred to London, he became its Director of Research and editor of the *Journal of Jewish Studies*. He also edited *Papers of the Institute of Jewish Studies* and gave unremitting energy and scrutiny to a number of volumes of *Scripta Judaica*. The contents of his publications range from gnosticism, pagan and Jewish, to medieval courtly poetry, the Kabbalah, and, primarily, to early Chasidism, on which he became one of the foremost experts. All his writings are distinguished by a penetrating analysis—religious, social, and historical—of his source material as well as by perceptiveness, succinctness, and elegance. At University College he organised weekly seminars which attracted scholars of many countries and international repute. He also initiated contacts with the Memorial Foundation for Jewish Culture in New York, which enabled the Department to introduce two new degree courses on European Jewish History down to modern times. His colleagues profited from every conversation they had with him, and his pupils admired him for the depth of his learning and loved him for the dedication he brought to his task.

Professor Roberto Weiss, who died on 10 August 1969 at the age of sixty-three, joined the staff of the College in 1938. Appointed to the Chair of Italian in 1946, he was one of the leading Italianists of our time. Conscious of a tradition dating back to the appointment of Antonio Panizzi as the first Professor of Italian at University College in 1828, he made sure that his Department led the way in the expansion of Italian studies in Great Britain that has taken place in the last two decades. Though he had decided to make England his home when still a young man, he maintained lively contact with the scholars of his native Italy and published extensively in both countries and in both languages. During the year he was awarded the Serena Medal for Italian Studies by the British Academy. It was to read Law at Oxford that he had first come to England but by the time he graduated he had discovered that his true interest lay elsewhere: in a field that is best defined by the title of the book which he finished shortly before his death, *The Renaissance Discovery of Classical Antiquity*. This was the

interest that never let him rest and to which—from the time of the essay on *Homer in the Renaissance*, which won him the Charles Oldham prize in 1934—he devoted all his energies. His exploration of the field was wide-ranging and he never ceased to break new ground. Humanism in England claimed his attention as well as Humanism in Italy. His interest in the visual arts matched his concern for literature, and in recent years his work on numismatics had earned him particular acclaim. Worthy of the Humanists that fascinated him he too was a collector and an antiquarian; ever on the alert for the significant find, he discovered in 1950 a lost section of Petrarch's *Trionfi*. Work never seemed to be a burden to him. He possessed an enviable capacity for not worrying about problems to which there was no remedy. Consideration and trust characterised all his dealings with other people, but he had an unerring eye for the spurious both within the world of scholarship and without.

The Department of Laws suffered a serious loss on the death in February 1969 at the early age of forty-nine of E. L. Johnson, who had held the Readership in Soviet Law since 1964. He was one of the few legal scholars who combined a profound knowledge of the Soviet system of law with the training and outlook of an English lawyer, and he was thus exceptionally qualified to expound Soviet Law to the English legal world. It was indeed unfortunate that he did not live to see the publication of the book—a detailed treatise on Soviet Law—which had occupied much of his time for the past three years and which he completed just before his death. He played a full part in the life of the Department, and his teaching was greatly valued by his students.

Professor H. J. Fleure, who had been an Honorary Lecturer in the Department of Geography since 1946, and formerly had held Chairs at the University College of Wales and the University of Manchester, died in July 1969.

Among former members of the staff who died were Professor H. Davenport, Astor Professor of Mathematics at the College from 1945 to 1958, and then Rouse Ball Professor of Mathematics at Cambridge, a leader of the internationally respected British school of number theory; Dr Una Fielding, member of the staff of the Department of Anatomy from 1923 to 1947, Reader in Neurological Anatomy from 1935, and Acting Head of the Department of Anatomy and Embryology during the war years; A. S. Gilbert, member of staff of the Department of Laws from 1927 to 1945, President of the Union Society in 1927–28, and at one time Warden of University College Hall, Ealing; Miss Joyce E. Lowe, who had assisted with

the teaching of Latin since 1928 and held an appointment as Assistant in the Department of Latin from 1943 to 1966; Professor E. B. Pearson, of the Royal Military College of Science, a former student and from 1931 to 1934 a member of staff of the Department of Physics; H. Warren Wilson, a member of staff of the Bartlett School of Architecture from 1923 to 1960, and Director of its Division of Decoration from 1949 to 1960; and J. A. Hussey, Establishment Officer on the administrative staff of the College from 1952 to 1962.

In the course of the year the College heard with regret of the death of many of its former students. Among them were Lady Chatterjee, barrister, who was noted for her educational and welfare work in India and Britain, and had participated in the work of the League of Nations and of the United Nations; John Dodgson, an artist and teacher of rare distinction; Dr L. G. Norman, formerly Chief Medical Officer of London Transport; and Professor L. Suratgar, Persian poet and scholar, who until recently had held the Chair of English Studies in the University of Teheran.

The death occurred during the year of two benefactors of the College, both associated with the Department of Scandinavian Studies: Lieutenant-Colonel B. E. Coke, founder of the Dorothea Coke Memorial Lectureship in Northern Studies, and Frank Herbert, a member of the Committee for the Promotion of Scandinavian Studies since 1925, and, through his charitable trust, a benefactor of the Department.

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[1 AUGUST 1968—31 JULY 1969]

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APPENDIX I

COLLEGE COMMITTEE

Chairman: The Right Hon. Lord Strang, G.C.B., G.C.M.G., M.B.E., B.A., LL.D.†
Vice-Chairman: F. J. Stephens, M.A.‡
Treasurer: Sir Bernard Waley-Cohen, BT, A.M., LL.D.‡
The Right Hon. Lord Annan, O.B.E., M.A., D.LITT., D.U. *Provost*‡
G. F. Arnold, B.A.§
Professor H. Billett, B.SC.(ENG.), HON.R.C.N.C., C.ENG., M.I.MECH.E., A.F.R.AE.S.¶
Professor E. H. S. Burhop, B.A., M.SC., PH.D., F.R.S.
Mrs Irene Chaplin, B.A., J.P.
Sir Edwin Chapman-Andrews, K.C.M.G., O.B.E., B.A.†
Sylvester Gates, C.B.E., M.A.
W. Greaves, B.SC.(ENG.)
J. C. Hawksley, C.B.E., M.D., PH.D., F.R.C.P., M.R.C.S.†
Professor J. Hurstfield, D.LIT.†
Professor E. R. H. Ivamy, LL.D.†§
The Hon. Virginia Makins, B.A.
T. A. L. Paton, C.M.G., B.SC., C.ENG., F.I.C.E., F.A.S.C.E., F.R.S.†
S. W. C. Phillips, C.B., B.A.†
Sir Edward Playfair, K.C.B.‡
The Hon. Jacob Rothschild
Professor P. N. Rowe, B.SC. (TECH.), PH.D., D.SC.(ENG.), C.ENG., M.I.CHEM.E., D.I.C.§
Professor H. O. Schild, M.D., PH.D., D.SC., F.R.S.
Professor G. Schwarzenberger, PH.D., DR.JUR.¶
Sir Harold Shearman, M.A., J.P.§
Lady Walton¶
Sir Frederick Warner, B.SC., C.ENG., F.I.MECH.E., M.I.CHEM.E., M.CONS.E.†
E. M. P. Welman
D. J. B. White, PH.D.¶
H. B. Wright, M.B., F.R.C.S.¶

ASSESSORS

J. S. Davies¶§ S. Perry¶ J. W. Shipley¶§ C. R. Walmsley, LL.B.¶

† Fellow of the College. ‡ Hon. Fellow of the College. § Membership terminated before 30 September 1969. ¶ Appointed after 1 October 1968.

APPENDIX II

PROFESSORIAL BOARD

Chairman: The Rt Hon. Lord Annan, O.B.E., M.A., D.LITT., D.U., Provost‡

M. Abercrombie, M.A., B.SC., F.R.S., Jodrell Professor of Zoology and Comparative Anatomy

J. T. Aitken, M.D., Professor of Anatomy

C. W. Allen, D.SC., Perren Professor of Astronomy

H. C. Allen, M.C., M.A., Commonwealth Fund Professor of American History

G. F. Arnold, B.A., Reader in Phonetics

E. A. Ash, PH.D., D.I.C., A.C.G.I., C.ENG., M.I.E.E., F.I.E.E.E., Professor of Electrical Engineering

R. J. Audley, PH.D., Professor of Psychology

Ernest Baldwin, SC.D., Professor of Biochemistry*

T. Barnard, PH.D., D.I.C., Professor of Micropalaeontology

N. A. Barnicot, PH.D., Professor of Physical Anthropology†

W. Beckerman, M.A., PH.D., Professor of Political Economy

P. R. Bell, M.A., Professor of Botany

H. Billett, B.SC.(ENG.), HON.R.C.N.C., C.ENG., M.I.MECH.E., A.F.R.AE.S., Professor of Mechanical Engineering

R. E. D. Bishop, PH.D., D.SC.(ENG.), SC.D., HON.R.C.N.C., C.ENG., F.I.MECH.E., A.F.R.AE.S., Kennedy Professor of Mechanical Engineering†

L. S. Bosanquet, M.A., D.PHIL., D.SC., Professor of Mathematics

Marian E. A. Bowley, B.SC.(ECON.), PH.D., Professor of Political Economy

B. B. Boycott, B.SC., Professor of Zoology

R. L. F. Boyd, B.SC.(ENG.), PH.D., C.ENG., F.I.E.E., F.R.S., Professor of Physics

F. Brailsford, B.SC.(ENG.), PH.D., C.ENG., F.I.E.E., Professor of Electrical Engineering

Arthur Brown, M.A., D.LIT., Professor of English

E. H. Brown, M.SC., PH.D., Professor of Geography

E. H. S. Burhop, B.A., M.SC., PH.D., F.R.S., Professor of Physics

J. H. Burns, M.A., PH.D., Professor of the History of Political Thought

L. Castillejo, M.A., B.SC.(ENG.), Professor of Physics

B. Cheng, LL.D., LIC.-EN-DR., Professor of Air and Space Law

A. H. Chilver, M.A., D.SC., C.ENG., M.I.C.E., M.I.STRUCT.E., A.F.R.AE.S., Chadwick Professor of Civil Engineering

I. R. Christie, M.A., Professor of Modern British History

Sir William Coldstream, C.B.E., D.LITT., Slade Professor of Fine Art†

P. E. Corbett, M.A., Yates Professor of Classical Art and Archaeology

A. L. Cullen, O.B.E., D.SC.(ENG.), C.ENG., F.I.E.E., F.I.E.E.E., F.INST.P., Pender Professor of Electrical Engineering

J. S. Cummins, PH.D., Reader in Spanish

S. P. Datta, B.SC., M.B., B.S., Professor of Medical Biochemistry

A. G. Davies, D.SC., F.R.I.C., Professor of Chemistry

D. G. Davis, PH.D., Senior Lecturer in Physics

G. D. Dawson, M.SC., M.B., CH.B., Professor of Physiology

Thorold Dickinson, B.A., Professor of Film

D. T. Donovan, D.SC., Yates-Goldsmid Professor of Geology

*Died 6 December 1969 †Fellow of the College. ‡Hon. Fellow of the College.

G. C. Drew, M.A., Professor of Psychology
W. B. Emery, C.B.E., M.A., D.LIT., F.B.A., F.S.A., Edwards Professor of Egyptology
T. Estermann, D.SC., D.NAT.SC., Professor of Mathematics
L. D. Ettlinger, PH.D., F.S.A., Durning-Lawrence Professor of the History of Art
P. G. Foote, M.A., Professor of Old Scandinavian
Daryll Forde, PH.D., F.B.A., Professor of Anthropology†
L. Fowden, PH.D., F.R.S., Professor of Plant Chemistry†
D. B. Fry, PH.D., Professor of Experimental Phonetics
A. C. Gimson, B.A., Professor of Phonetics
E. G. Gray, B.SC., PH.D., Professor of Anatomy (Cytology)
A. L. Greenbaum, PH.D., D.SC., Professor of Biochemistry
B. D. Greenslade, M.A., Senior Lecturer in English Language and Literature
H. Grüneberg, PH.D., M.D., D.SC., F.R.S., Professor of Genetics
G. Hall, PH.D., Senior Lecturer in French
M. A. K. Halliday, M.A., PH.D., D.H.C. (NANCY), Professor of General Linguistics
E. W. Handley, M.A., F.B.A., Professor of Greek
H. Harris, M.A., M.D., F.R.S., Galton Professor of Human Genetics
F. F. Heymann, B.SC.(ENG.), PH.D., Professor of Physics
The Rt Hon. Lord Holford, M.A., D.C.L., LL.D., D.LITT., F.R.I.B.A., M.T.P.I., F.I.L.A., A.R.A., Professor of Town Planning
D. C. Holland, M.A., Professor of English Law
R. G. Hopkinson, B.SC.(ENG.), PH.D., C.ENG., F.I.E.E., F.R.P.S., F.I.E.S., HON.F.R.I.B.A., Haden-Pilkington Professor of Environmental Design and Engineering
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Raymond Irwin, M.A., F.L.A., Professor of Library Studies
E. R. H. Ivamy, LL.D., Professor of Law†
K. J. Ives, D.SC.(ENG.), PH.D., C.ENG., M.I.C.E., M.A.S.C.E., Professor of Public Health Engineering
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†Fellow of the College.

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Sir Harrie Massey, D.SC., PH.D., LL.D., F.R.S., Quain Professor of Physics
W. R. Mead, D.SC.(ECON.), PH.D., F.D., Professor of Geography
Maxine P. M. Merrington, PH.D., Lecturer in Statistics
R. Miledi, M.D., Professor of Biophysics
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L. J. Rydill, O.B.E., R.C.N.C., C.ENG., M.R.I.N.A., Professor of Naval Architecture
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W. Schwarz, M.A., PH.D., Professor of German
G. Schwarzenberger, PH.D., DR.JUR., Professor of International Law
J. W. Scott, B.A., A.L.A., Librarian
M. A. Screech, D.LITT., Professor of French
M. J. Seaton, PH.D., F.R.S., Professor of Physics
O. Skutsch, DR.PHIL., Professor of Latin
R. J. Smeed, C.B.E., PH.D., Professor of Traffic Studies
C. A. B. Smith, M.A., PH.D., Weldon Professor of Biometry
F. Sondheimer, PH.D., F.R.S., Professor of Chemistry and Royal Society Research Professor
J. Spraos, M.A., Professor of Political Economy
S. Stein, PH.D., Professor of Hebrew
K. Stewartson, M.A., PH.D., F.R.S., Goldsmid Professor of Mathematics
M. Stone, PH.D., Professor of Probability and Statistics
K. W. Swart, LITT.D.(LEIDEN), Professor of Dutch History and Institutions
D. Thomas, M.A., PH.D., Lecturer in Geography
J. A. C. Thomas, M.A., LL.B., Professor of Roman Law
E. H. Thompson, O.B.E., M.A., SC.D., F.R.I.C.S., Professor of Photogrammetry and Surveying

†Fellow of the College.

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D. A. Turin, DIPL.ARCH., S.C.A., F.I.O.B., London Master Builders Professor of Building
E. G. Turner, M.A., DR.PHIL.ET LETTRES, F.B.A., Professor of Papyrology
C. A. Vernon, D.SC., Professor of Chemistry
P. D. Wall, M.A., D.M., Professor of Anatomy
J. G. Weiss, M.A., PH.D., Professor of Jewish Studies*
R. Weiss, B.A., Professor of Italian§
P. Wheatley, M.A., PH.D., Professor of Geography
D. J. B. White, PH.D., Senior Lecturer in Botany
D. R. Wilkie, M.D., M.B., B.S., M.R.C.P., Professor of Experimental Physiology
J. S. Wilkie, B.SC., PH.D., F.L.S., Professor of History and Philosophy of Science
Elizabeth M. Wilkinson, PH.D., LL.D., Professor of German
A. P. Willmore, PH.D., Professor of Physics
B. Woledge, M.A., D.DE L'UNIV., Fielden Professor of French Language and Literature
Richard Wollheim, M.A., Grote Professor of Philosophy of Mind and Logic
J. Z. Young, M.A., D.SC., F.R.S., Professor of Anatomy

ASSESSORS

The Sub-Deans of the Faculties:

Arts: C. J. Holdsworth, M.A., PH.D. *Science:* C. Dodd, PH.D.
Laws: I. M. Kennedy, LL.B. *Medical Sciences:* J. Diamond, PH.D., M.B., B.S.

The Tutor to Women Students: Olive D. Maguinness, M.SC., D.-ÈS-SC.

*Died 7 September 1969. §Died 10 August 1969.

APPENDIX III

HONORARY FELLOWS AND FELLOWS

The following elections were made in 1969:

HONORARY FELLOWS

Sir Edward (Wilder) Playfair, K.C.B., a member of the University College Committee, and a Governor of Imperial College of Science and Technology; Director of Westminster Bank Limited, the Glaxo Group Limited, and Tunnel Portland Cement Company; formerly Chairman of I.C.T. Limited; sometime Permanent Under-Secretary of State for War, and Permanent Secretary, Ministry of Defence.

Professor Thomas Bertram Lonsdale Webster, F.B.A., Emeritus Professor of Greek in the University of London and formerly Head of the Department of Greek, University College London.

FELLOWS

Dr Cecil Wilfrid Luscombe Bevan, C.B.E., Principal of the University College of South Wales and Monmouthshire, Cardiff.

Mr (Arthur) Hugh Chaplin, Principal Keeper in the Department of Printed Books at the British Museum.

Professor Alfred Horace Gerrard, Emeritus Professor of Sculpture in the University of London and formerly Professor of Sculpture at the Slade School of Fine Art, University College London.

Dame (Katharine) Annis Calder Gillie, D.B.E., a former general medical practitioner, and Past-President of the Royal College of General Practitioners; Vice-President of the British Medical Association, and member of Oxford Regional Hospital Board; Chairman of the Council of Benenden School.

Mr Bernard John Harries, Consultant Neurosurgeon, University College Hospital, and Dean of the Medical School; Consultant Neurosurgeon to Long Grove Hospital, Epsom.

Professor Edward Richard Hardy Ivamy, Professor of Law in the University of London at University College London.

Professor Albert Cyril Offord, F.R.S., F.R.S.E., Professor of Mathematics in the University of London at the London School of Economics and Political Science.

Mr Sydney William Charles Phillips, C.B., Second Civil Service Commissioner concerned with the Fulton Committee recommendations for Civil Service reforms; formerly Under-Secretary, Ministry of Housing and Local Government.

Mr Richard Fife Walker, Chairman and Managing Director of Walker, Crosweller and Company Limited, Cheltenham; President of the West of England Engineering Employers Federation.

APPENDIX IV

PRINCIPAL CHANGES IN THE ACADEMIC STAFF

FACULTY OF ARTS

ANTHROPOLOGY

Resignations: R. J. Brain, B.A., PH.D. (Lecturer).
I. M. Lewis, B.SC., B.LITT., D.PHIL. (Reader in Anthropology), to Chair of Anthropology, London School of Economics.
Patricia T. Wade, B.SC. (Research Assistant), to University of Washington, Seattle.

Retirement: C. Daryll Forde, PH.D., F.B.A. (Professor of Anthropology), to be Honorary Research Associate.

ENGLISH LANGUAGE AND LITERATURE

Appointments: Ruth M. Kempson, B.A. (Research Assistant), formerly administrative staff.
Judith C. Perryman, B.A., M.SC. (Research Assistant), formerly student, St Anne's College, Oxford.

Resignations: G. N. Leech, M.A., PH.D. (Lecturer), to Senior Lectureship, University of Lancaster.
Mrs Margaret A. Marshment, B.A. (Assistant).
A. G. R. Petti, M.A. (Lecturer), to Professorship, University of Calgary.
M. P. Rhodes, M.A. (Quain Student), to Lectureship, Westfield College.
J. Stewart, B.A., FIL.LIC. (Research Assistant), to Lectureship, University of Copenhagen.

FINE ARTS

Appointments: J. M. Dohnal, M.A. (Research Assistant), formerly postgraduate student in Department.
Robert Medley (Part-time Lecturer), formerly Temporary Lecturer in Department.

Resignations: B. Elliott (Part-time Lecturer).
P. K. King, M.A. (Part-time Lecturer).

FRENCH

Appointment: Mrs Annette C. M. Lavers, PH.D., L.ÈS.L., D.E.S. (Lecturer), formerly Lecturer, Westfield College.

GEOGRAPHY

Appointment: Mrs Patricia McK. Anderson, B.SC. (Lecturer), formerly postgraduate student in Department.

Resignation: N. H. Perry, PH.D. (Lecturer), to Planning Department, Greater London Council.

Death: Professor H. J. Fleure, M.A., D.SC., LL.D., F.R.S. (Honorary Lecturer).

GERMAN

Appointments: I. Dworetzsky, A.M. (Lecturer), formerly Research Assistant, Freie Universität, Berlin.
Mrs Irene Frowen, B.A. (Lecturer), formerly Temporary Lecturer in Department.
M. Von Poser ünd Gross-Naedlitz, D.PHIL. (Assistant), formerly student, Rheinische Friedrich-Wilhelms-Universität, Bonn.

GREEK

Appointments: P. W. Fulford-Jones, B.A. (Lecturer), formerly Lecturer, Pembroke College, Oxford.
A. B. E. Hood, M.A. (Lecturer), formerly student, Balliol College, Oxford.
J. R. Rea, M.A., PH.D. (Honorary Research Associate), Lecturer, University of Oxford.

Resignation: T. W. Melluish, M.A. (Honorary Lecturer).

HEBREW AND JEWISH STUDIES

Appointment: C. Abramsky, B.A. (Part-time Lecturer), Senior Research Fellow, St Antony's College, Oxford.

Death: J. G. Weiss, PH.D. (Professor of Jewish Studies).

HISTORY

Appointments: Mrs Sarah C. Humphreys, M.A. (Part-time Lecturer), Librarian at Warburg Institute, also holds honorary appointment in Department of Anthropology.
D. W. J. Johnson, B.A., B.LITT. (Professor of French History), formerly Professor of Modern History, University of Birmingham.
Mrs Valerie Pearl, M.A., PH.D. (Reader in the History of London), from Somerville College, Oxford.

Resignation: R. C. Floud, B.A. (Lecturer), to Assistant Lectureship, University of Cambridge.

HISTORY OF ART

Resignation: Mrs Marina A. R. Scharf, M.A. (Lecturer).

ITALIAN

Death: R. Weiss, B.A. (Professor of Italian).

LATIN

Appointments: P. W. Fulford-Jones, B.A. (Lecturer), see Greek.
A. B. E. Hood, M.A. (Lecturer), see Greek.

LIBRARIANSHIP AND ARCHIVES

Appointments: C. W. Cleverdon (Honorary Research Associate), Librarian, College of Aeronautics, Cranfield.
R. E. Coward, F.L.A. (Honorary Research Associate), Head of Research and Development, British National Bibliography.
E. L. Griggs, M.A., PH.D., D.LIT. (Honorary Research Associate), Dean, Graduate Division, University of California, Berkeley.

Retirement: R. Irwin, M.A., F.L.A. (Professor of Library Studies).

POLITICAL ECONOMY

Appointments: W. Beckerman, M.A., PH.D. (Professor of Political Economy), formerly Fellow of Balliol College, Oxford, and the Economic Adviser to the Board of Trade.

M. C. Sawyer, B.A., M.SC.(ECON.) (Lecturer), formerly student, London School of Economics.

P. C. Thanh, B.COM., PH.D. (Lecturer), formerly Lecturer, University of Southampton.

P. K. Trivedi, M.SC.(ECON.) (Lecturer), formerly Research Assistant, London School of Economics.

Resignations: Audrey G. Donnithorne, M.A. (Reader in Chinese Economic Studies), to Professorial Fellowship, Department of Economics, Research School of Pacific Studies in the Australian National University.

Mrs Tsu-Tung M. Emslie, B.SC. (Research Assistant).

Mrs Margaret E. Paul, M.A., B.PHIL. (Lecturer), to Fellowship, Lady Margaret Hall, Oxford.

D. R. F. Simpson, M.A., PH.D. (Lecturer), to Senior Lectureship, University of Stirling.

Professor T. Suzuki, M.EC. (Honorary Research Associate).

SCANDINAVIAN STUDIES

Appointments: His Excellency Erling Kristiansen (Honorary Research Associate), Danish Ambassador.

Mrs Karin R. Petherick, B.A. (Lecturer), formerly Part-time Lecturer in Department.

TOWN PLANNING

Resignations: Lt-Col. D. F. Densham-Booth, O.B.E. (Honorary Research Associate).

S. Musgrave, B.A. (Research Assistant), to University of Birmingham.

A. J. Scott, M.A., PH.D. (Honorary Research Associate), to University of Toronto.

FACULTY OF LAWS

Appointments: S. S. Dhavan, LL.B. (Honorary Research Associate), High Commissioner for India.

Professor C. Kellenberg, LL.B. (Visiting Professor), Assistant Professor, University of Notre Dame.

P. J. Mahoney, B.A. (Lecturer), formerly Temporary Lecturer in Department.

Nirmala Patel, B.A., LL.B. (Research Assistant), formerly student in Department.

D. G. Powles, LL.M. (Lecturer), formerly Visiting Teacher, Holborn College of Law, Languages and Commerce.

D. D. Prentice, LL.B., J.D. (Lecturer), formerly Assistant Professor, University of Western Ontario.

M. A. Vivian, B.C.L., LL.B. (Lecturer), formerly student, Wadham College, Oxford.

Resignations: C. Arnold, LL.B. (Lecturer), to pursue research studies in legal philosophy.

M. H. Banks, B.SC.(ECON.), M.A. (Honorary Research Associate), to London School of Economics.

Mrs Margaret G. Buckley, LL.M. (Lecturer), to practice as a solicitor.

Retirement: G. W. Keeton, M.A., LL.D., F.B.A. (Professor of English Law), to be Director of Studies, Notre Dame Students.

Death: E. L. Johnson, M.A., LL.M. (Reader in Soviet Law).

FACULTY OF SCIENCE

ARCHITECTURE

Appointment: Professor H. Proshansky, PH.D. (Honorary Research Associate), Professor of Psychology, Brooklyn College, The City University of New York.

Resignation: A. J. Forrest, D.A.(EDIN.), A.R.I.B.A. (Lecturer), to University of California, Berkeley.

BOTANY AND MICROBIOLOGY

Appointments: G. Pontecorvo, PH.D., F.R.S. (Visiting Professor), Imperial Cancer Research Fund Laboratories.

M. G. P. Stoker, M.A., M.D., F.R.S. (Visiting Professor), Scientific Director of Research, Imperial Cancer Research Fund Laboratories.

Resignation: M. C. Jones-Mortimer, M.A. (Research Assistant), to Research Fellowship, University of Birmingham.

CHEMISTRY

Appointments: Mrs Maie-Ann Barrow, B.SC. (Research Assistant), formerly Departmental Assistant in Department.

A. J. Bloodworth, PH.D. (Lecturer), formerly held honorary appointment in Department.

Professor D. P. Craig, D.SC., F.R.I.C., F.R.S. (Visiting Professor), Professor of Physical and Theoretical Chemistry, Institute of Advanced Studies, Australian National University.

Professor R. Ettore (Honorary Research Associate), from the University of Padova.

Professor Nunziata C. Marziano (Honorary Research Associate), from the University of Catania.

I. A. McLean, PH.D. (Research Assistant), formerly postgraduate student, Monash University.

C. J. Pedersen, PH.D., M.S. (Honorary Research Associate), holds special advisory post with Agricultural Research Council Unit of Structural Chemistry.

Professor V. Ricevuto, DR.CHEM. (Honorary Research Associate), from the University of Catania.

Resignations: B. Bosnich, PH.D. (Lecturer), to Lectureship, University of Toronto.

R. A. Ross, M.SC., PH.D. (Lecturer), to Senior Lectureship, Open University.

Retirement: A. Wassermann, D.SC., PH.D. (Reader in Chemistry), to be Honorary Research Associate.

GEOLOGY

Resignation: D. Skevington, PH.D. (Lecturer), to Chair of Geology, University College, Galway.

HISTORY AND PHILOSOPHY OF SCIENCE

Resignation: L. L. Laudan, M.A., PH.D. (Lecturer), to be Head of Program in History and Philosophy of Science, University of Pittsburgh.

Retirement: A. Armitage, M.SC., PH.D. (Reader in History and Philosophy of Science).

HUMAN GENETICS AND BIOMETRY

Appointment: D. P. Brenton, B.A., M.B., B.CHIR., M.R.C.P. (Lecturer), joint appointment with University College Hospital Medical School.

MATHEMATICS

Appointment: R. T. Waechter, M.SC., PH.D. (Honorary Research Associate).

Retirement: T. Estermann, D.SC., D.NAT.SC. (Professor of Mathematics), to be Honorary Research Associate.

PHYSICS

Appointments: A. H. Gabriel, PH.D., F.INST.P. (Honorary Lecturer), Group Leader (Laboratory Astrophysics), Science Research Council Astrophysics Research Unit, Culham.

R. W. P. McWhirter, PH.D. (Honorary Lecturer), Science Research Council Astrophysics Research Unit, Culham.

B. R. C. Martin, PH.D. (Lecturer), formerly Research Associate, Brookhaven National Laboratory, New York.

D. J. Miller, PH.D. (Lecturer), formerly Research Associate, Brookhaven National Laboratory, New York.

S. J. Sharrock, B.SC. (Research Assistant), formerly held Science Research Council Studentship.

W. A. Towlson, PH.D. (Lecturer), formerly held Temporary Lectureship and research appointment in Department.

R. Wilson, PH.D. (Visiting Professor), Director, Science Research Council Astrophysics Research Unit, Culham.

Resignations: P. Hyson, B.SC. (Research Assistant), to undertake space research in Australia.

C. C. Nimmon, B.SC. (Research Assistant).

F. R. Stannard, PH.D. (Lecturer), to Readership in Physics, Open University.

R. F. Stebbings, PH.D. (Reader in Physics), to Rice University.

T. H. Yao, B.SC., M.A. (Research Assistant), to Princeton University.

PSYCHOLOGY

Appointments: Mrs Eunice Belbin, M.A., PH.D. (Honorary Research Associate), formerly Honorary Research Assistant in Department.

Mrs Beate M. E. Hermelin, PH.D. (Honorary Research Associate), Medical Research Council Developmental Psychology Research Unit.

N. O'Connor, M.A., PH.D. (Honorary Lecturer), Medical Research Council Developmental Psychology Research Unit.

G. Sperling, M.A., PH.D. (Honorary Research Associate), Acting Associate Professor, University of California, Los Angeles.

Resignation: R. T. Green, PH.D. (Lecturer), appointed Professor of Psychology, Open University.

STATISTICS

Appointment: P. R. Freeman, M.A. (Lecturer), formerly Lecturer, University of Reading.

Resignations: A. G. Hawkes, PH.D. (Lecturer), to Readership in Mathematical Statistics, University of Durham.

V. Siskind, B.SC. (Lecturer), to Institut for Matematisk Statistik, Copenhagen.

ZOOLOGY AND COMPARATIVE ANATOMY

Appointments: G. Pontecorvo, PH.D., F.R.S. (Visiting Professor), Imperial Cancer Research Fund Laboratories.

The Very Reverend Father H. W. Rigney, S.V.D., B.A., M.SC., PH.D. (Honorary Research Associate), from Divine Word College, Epworth, Iowa.

M. G. P. Stoker, M.A., M.D., F.R.S. (Visiting Professor), Scientific Director of Research, Imperial Cancer Research Fund Laboratories.

Resignation: K. Vickerman, PH.D. (Honorary Research Associate), appointed Director of the Nuffield Foundation's Protozoology Research Unit and Reader in Zoology, University of Glasgow.

FACULTY OF ENGINEERING

CIVIL AND MUNICIPAL ENGINEERING

Resignations: Duen Ho, M.SC., PH.D., D.I.C. (Research Assistant), to University of Hong Kong.

B. K. Menzies, M.E. (Lecturer), to Lectureship, Kingston College of Technology.

MECHANICAL ENGINEERING

Appointments: J. Lewins, M.A., M.SC., PH.D. (Honorary Lecturer), Warden, Hughes Parry Hall.

S. J. Palmer, O.B.E., R.C.N.C., M.R.I.N.A. (Honorary Research Associate), Head of Royal Corps of Naval Constructors.

R. R. Phillips, B.SC., R.C.N.C., A.M.R.I.N.A. (Honorary Lecturer), Royal Corps of Naval Constructors.

Resignation: M. J. Hall, B.SC.(ENG.), PH.D. (Lecturer), to post with Shell-Mex and B.P. Ltd.

ELECTRONIC AND ELECTRICAL ENGINEERING

Appointments: R. E. Giblin, B.SC.(ENG.), PH.D., C.ENG., M.I.E.E. (Lecturer), formerly Senior Scientific Officer, Services Electronics Research Laboratory, Microwave Electronics Division, Baldock.

F. E. Jones, M.B.E., D.SC., C.ENG., F.I.E.R.E., F.I.E.E., F.R.AE.S., F.R.S. (Visiting Professor), Managing Director, Mullard Ltd.

CHEMICAL ENGINEERING

Appointment: T. A. Kantyka, B.SC.(TECH.), A.M.C.T., C.ENG., M.I.CHEM.E. (Honorary Lecturer), Technical Manager, Imperial Chemical Industries' Nylon Works, Wilton, Wilts.

FACULTY OF MEDICAL SCIENCES

ANATOMY AND EMBRYOLOGY

Appointments: Mrs Marjorie A. England, B.A. (Research Assistant), formerly student in Department.

P. Hillman, M.A., PH.D. (Honorary Research Associate).

M. J. Hobbs, M.A., PH.D. (Research Assistant), formerly Assistant Lecturer, King's College London.

Valerie B. Morris, PH.D. (Honorary Research Associate), formerly Senior Lecturer, University of Sydney.

A. W. Prathalingam, B.SC., M.B., B.S., M.R.C.S., L.R.C.P. (Lecturer), formerly House Surgeon, West Middlesex Hospital.

Resignations: Ann M. C. Burgess, B.SC., PH.D. (Research Assistant), to appointment at the London Hospital.

B. G. Cragg, M.A., PH.D. (Assistant Director, Medical Research Council Cerebral Functions Research Group), to appointment in the Physiology Department, Monash University, Melbourne.

G. D. Gaffan, B.A. (Research Assistant), to grant-supported post in Department.

Professor R. Melzack, PH.D. (Honorary Research Associate).

C. C. Wood, B.SC. (Research Assistant), to Natural Environment Research Council Studentship, University of Exeter.

BIOCHEMISTRY

Appointment: P. H. W. Butterworth, PH.D. (Lecturer), formerly Postdoctoral Research Fellow, Harvard University.

Resignation: D. Gompertz, M.B., CH.B., PH.D. (Lecturer), to Lectureship, Royal Postgraduate Medical School, Hammersmith Hospital.

PHARMACOLOGY

Resignations: I. K. M. Morton (Lecturer), to Lectureship, King's College London.

G. E. Paget, M.D. (Honorary Lecturer).

PHYSIOLOGY

Appointments: M. W. B. Bradbury, M.A., D.M. (Honorary Lecturer), St Thomas's Hospital Medical School.

N. R. Saunders, M.B., B.S., PH.D. (Lecturer), formerly held appointment at Hillingdon Hospital, Uxbridge.

MEDICAL SCIENCES

Appointment: O. Graham-Jones, F.R.C.V.S. (Honorary Veterinary Consultant), Senior Lecturer, Royal Veterinary College.

APPENDIX V

PUBLIC LECTURES

ENDOWED LECTURES

BARLOW LECTURES ON DANTE

Mr John A. Scott, Reading: 'The Message of the *Comedy*' (three lectures)

COMMONWEALTH FUND LECTURES

Professor Oscar Handlin, Harvard: 'Discovering the American People' (four lectures)

DOROTHEA COKE MEMORIAL LECTURE IN NORTHERN STUDIES

Professor Dag Strömbäck, Uppsala: 'Aspects of Early Christianity in Norway and Sweden'

HOBHOUSE MEMORIAL LECTURE

Dr Christopher Hill, Oxford: ' "Reason" and "Reasonableness" in 17th Century England'

LORD NORTHCLIFFE LECTURES IN LITERATURE

Mr Stephen Spender: 'English Elegy and American Tragedy' (four lectures)

RICKMAN GODLEE LECTURE

Dr Francis Crick, Cambridge: 'The Social Impact of Biology'

SHEARMAN MEMORIAL LECTURES

Professor Noam Chomsky, Massachusetts Institute of Technology: 'Problems of Syntax and Semantics' (three lectures)

INAUGURAL LECTURES

Professor E. A. Ash, Professor of Electrical Engineering: 'Applied Research in the University—the Case for the Defence'

Professor P. R. Bell, Professor of Botany: 'The Archegoniate Revolution'

Professor K. J. Ives, Professor of Public Health Engineering: 'Purely and Simply—Water'

Professor Douglas Johnson, Professor of French History: 'France and the World Beyond'

Professor L. J. Rydill, Professor of Naval Architecture: 'What is Naval Architecture?'

Professor C. A. Vernon, Professor of Chemistry: 'Bee Venom'

Professor P. D. Wall, Professor of Anatomy: 'Processes which precede Sensation'

Professor J. G. Weiss, Professor of Jewish Studies: 'Sense and Nonsense in defining Judaism—the strange case of Nahman of Brazlav'

Professor A. P. Willmore, Professor of Physics: 'X-rays from the Stars'

LUNCH-HOUR LECTURES

Dr R. J. Berry: 'Genetical Changes in Mice and Men'
Mr B. C. Brookes: 'Libraries, Information, and Scientific Creativity. II. The Local Problem: LUCIS'
Dr C. R. Butler: 'Are two brains better than one?'
Professor I. R. Christie: 'Newspaper Tycoons of the Later Georgian Age, 1780–1830'
Mr G. A. Cohen: 'Herbert Marcuse'
Mr D. B. Davies: 'The Gioconda Smile'
Dr M. Mary Douglas: 'Trance and Rite'
Professor L. D. Ettlinger: 'Michelangelo's Medici Chapel'
Mr D. J. Foskett: 'Libraries, Information, and Scientific Creativity. I. The General Problem'
Mr D. H. Girmes: 'IQ: Computer versus Human Brain'
Mr A. J. R. Groom: 'Participation and Systems at the World Level'
Dr J. E. Guest: 'Volcanoes'
Miss Gertrude H. Keir: 'Children of Tristan da Cunha: a Psychological Study'
Professor J. F. Kermode: 'How Art Survives—*King Lear*'
Mr Lynton Lamb: 'The Illustrated Old Testament'
Mrs Anna L. M. Lepschy: 'The Venice of Fifteenth Century Travellers'
Dr A. E. A. Lequet: 'Joan of Arc in Charles Péguy's vision of Heaven and Hell'
Mr J. M. A. Lindon: 'Bentham's "First Evangelist of Reason": Cesare Beccaria'
Dr A. A. Long: 'Alienation in Greek Thought'
Mr G. Manners: 'The British Steel Corporation: Some Corporate Planning Dilemmas'
Mr R. M. Maxwell: 'Functionalism and the Ambiguity of Form'
Mr R. M. Perkins: 'The Scandinavian Discovery of America'
Mr T. P. Roberts: 'The Theme of Parricide in Shakespeare's *Macbeth*'
Dr J. E. Robinson: 'Graveyard Geology'
Dr D. R. F. Simpson: 'The Problem of English Nationalism'
Professor D. A. Turin: 'Building as a Process'
Mr H. S. Smith: 'Sacred Cows in Ancient Egypt'
Dr A. Warren: 'The Change of Winds in Africa'
Dame Veronica Wedgwood: 'The Private Life of Oliver Cromwell'
Professor G. A. Wells: 'Stages of New Testament Criticism'
Mr J. C. Wells: 'Language and Human Rights'
Professor Richard Wollheim: 'Freud, Culture and Revolution'

LECTURES ARRANGED BY COLLEGE DEPARTMENTS

This list includes only those lectures given by visiting lecturers or by honorary members of the staff.

ANATOMY AND EMBRYOLOGY

Dr Bernice Grafstein, Rockefeller University, New York: 'Transport of Materials down Nerve Axons'
Professor J. Szentágothai, University Medical School, Budapest: 'Neuron Circuits in the Dorsal Horn of the Spinal Cord'

BIOCHEMISTRY

Professor Eraldo Antonini, Rome: 'The Reactions of Myoglobin and Haemoglobin with Ligands' (two lectures)

Dr Lester Packer, California: 'Mechanochemical and osmotic basis of energy transduction in mitochondria', 'Energized ion translocation in chloroplasts: an unified hypothesis of membrane structure and function' (two lectures).

GREEK

Mr Stefanos Linaios: 'Greek Poetry from Homer to Seferis and Ritsos'

JUBILEE OF SCANDINAVIAN STUDIES 1918–68

The following Special University Lectures were arranged:

Dr Gylfi Þ. Gíslason, Iceland's Minister of Culture and Education: 'Iceland 1918–1968'

H.E. Erling Kristiansen, Royal Danish Ambassador: 'Denmark 1918–1968'

Professor Magne Skodvin, Oslo: 'Norway 1918–1968'

Professor Heikki Waris, Helsinki: 'Finland 1918–1968'

Professor Jörgen Weibull, Århus: 'Sweden 1918–1968'

APPENDIX VI

NUMBERS OF STUDENTS, SESSION 1968–69

	Under-graduates	*Post-graduates*	*Totals*
Faculty of Arts	925 (282)	414 (153)	1,339 (435)
Department of Political Economy ..	196 (8)	23 (5)	219 (13)
Slade School of Fine Art	79 (12)	77 (3)	156 (15)
Department of Town Planning ..	— (—)	131 (80)	131 (80)
School of Librarianship and Archives	— (—)	105 (42)	105 (42)
	1,200 (302)	750 (283)	1,950 (585)
Faculty of Science	1,177 (24)	*534 (175)	1,711 (199)
Bartlett School of Architecture ..	137 (11)	103 (24)	240 (35)
	1,314 (35)	637 (199)	1,951 (234)
Faculty of Medical Sciences	251 (—)	9 (7)	260 (7)
Faculty of Engineering	345 (12)	192 (55)	537 (67)
Faculty of Laws	†364 (33)	‡238 (69)	602 (102)
	3,474 (382)	§1,826 (613)	5,300 (995)

The figures in brackets indicate the number of part-time students included in the total under each head.

*This figure includes 64 full-time and 23 part-time postgraduate students working in the College Faculty of Medical Sciences who were registered in the University Faculty of Science.

†This figure includes 15 full-time and 1 part-time undergraduate students studying for a B.Sc. (Econ) in International Law and Relations who were registered in the University Faculty of Economics.

‡This figure includes 14 full-time and 2 part-time postgraduate students studying for an M.Sc. in International Law and Relations who were registered in the University Faculty of Economics.

§Of this number 1,357 were registered for higher degrees of the University of London; the remainder were working for higher diplomas of the University or of the College, or for higher degrees of other universities, or were engaged in research work, or attending postgraduate lecture courses.

APPENDIX VII

GEOGRAPHICAL DISTRIBUTION OF STUDENTS, SESSION 1968–69

	Under-graduates	*Post-graduates*	*Totals*
UNITED KINGDOM	3,136	1,289	4,425
BRITISH COMMONWEALTH OF NATIONS			
Australia	5	31	36
Canada	5	59	64
Ceylon	2	13	15
India	9	43	52
Malaya	19	2	21
New Zealand	1	16	17
Nigeria	9	20	29
Pakistan	6	23	29
24 other countries	68	49	117
OTHER PARTS OF THE WORLD			
Czechoslovakia	13	3	16
France	19	1	20
Greece	7	41	48
Iran	7	11	18
Japan	11	1	12
South Africa	7	13	20
Sudan	—	18	18
Turkey	12	10	22
U.S.A.	65	72	137
West Germany	18	11	29
44 other countries .. .. (including 1 Stateless—undergraduate)	55	100	155
	3,474	1,826	5,300

SUMMARY

United Kingdom	4,425
British Commonwealth of Nations ..	380
Other parts of the world	495
	5,300

APPENDIX VIII

ADMISSION OF FIRST DEGREE AND FIRST DIPLOMA STUDENTS SESSION 1968–69

FACULTY OF ARTS	*Students Admitted October* 1968
B.A. Honours	
Classics	15
English	36
English & History of Art	5
French	28
French & History of Art	1
French & Philosophy	2
German	23
German & History of Art	1
German & Swedish	2
Hebrew	4
Hebrew & Jewish History	4
History, Ancient & Medieval	5
History, Medieval & Modern	36
Italian	8
Jewish History	1
Modern Iberian & Latin American Regional Studies	7
Philosophy	22
Philosophy & Economics	2
Philosophy & History of Art	3
Scandinavian Languages	9
	214
B.Sc. (Econ.)	68
University Diploma in Fine Art	28

FACULTY OF SCIENCE	
B.Sc. Degree	
Anthropology	17
Astronomy	6
Biochemistry	21
Biological Sciences	10
Botany & Microbiology	21
Chemistry	68
Geography	60
Geology	19
Mathematics	63

	Students Admitted October 1968
B.Sc. Degree—*cont.*	
Pharmacology	5
Physics	52
Physiology	6
Psychology	37
Statistics	24
Zoology & Comparative Anatomy	12
	421
B.Sc. Degree in Architecture	44
FACULTY OF LAWS	
LL.B.	139
B.Sc. (Econ.)	16
	155
FACULTY OF ENGINEERING	
B.Sc. (Eng.)	
Civil & Municipal Engineering	37
Electronic & Electrical Engineering	34
Mechanical Engineering	30
B.Sc. (Eng.) in Chemical Engineering	37
	138
FACULTY OF MEDICAL SCIENCES	
2nd M.B.	104
2nd B.D.S.	49
	153
Total	1,221

UNIVERSITY HIGHER DEGREES AND HIGHER DIPLOMAS

FACULTY OF ARTS

Ph.D. *Anthropology:* K. Arhin. *English:* H. B. de Groot, R. Hoffpauir, G. N. Leech. *French:* S. M. Gauna. *Geography:* J. H. Bater, N. H. Perry, D. Thomas. *German:* J. J. White. *Greek:* J. F. Davidson, J. D. C. Frendo. *History:* Cynthia M. Begbie, Mary E. A. Condon, Mary L. Ellison, J. R. Freedman. *Linguistics:* B. A. Mohan. *Philosophy:* E. D. R. Honderich, F. L. Weiss. *Psychology:* Elizabeth R. Cornish, Janet Goodman, Maya Sinha. [21]

M.Phil. *Anthropology:* R. H. Layton, Pamela Shurmer. *English:* Anne J. Benyon, Patricia J. A. Stubbs, Judith A. Terry. *Geography:* †Mary S. Lloyd. *History:* T. G. Kabdebo. *Latin:* Anne S. Flesch. *Philosophy:* R. K. Black, Margaret T. Castle. *Phonetics:* P. R. Hawkins. *Psychology:* P. Branton. *Town Planning:* E. L. Arnold, D. L. Cook, I. G. Cullen, M. J. Dear, J. R. Donnison, E. B. Dotson, Judith A. Elton, P. J. Grover, J. S. Hack, J. M. Herington, I. H. Jones, C-W. Lo, F. D. Medjuck, Angela E. Payling, Margaret E. A. Rawson, G. F. Smith, Aphrodite Syngellaki, F. E. Tibbalds, R. J. Vrancart, R. O. L. Wickham, J. S. Woodford, P. J. Yates, W. G. Zwirner. [35]

M.A. *Area Studies:* E. F. Early, H. G. Girou, A. Hughes, Cynthia J. Little, R. R. Rawlins, D. J. Robinson. *English:* S. Bolozky, *Jennifer E. T. Coates, J. E. Dawson, F. H. Fricker, R. A. Horrocks, M. F. Riddle, Janet S. Whitcut, P. S. Winterson. *German:* T. Creak. *History:* *M. G. Spencer. [16]

University Postgraduate Diplomas: Archive Administration, 13; Fine Art, 44; General Linguistics, 5; Librarianship, 43; Physical Anthropology, 1; Psychology, 11; Social Anthropology, 6; Town Planning, 23; Town Planning and Civic Architecture, 1. [147]

FACULTY OF ECONOMICS

M.Sc. in Economics *Economics:* S. K. Apea, N. Baltazzis, C. H. Davies, E. G. Horsman, G. Petrocheilos, J. B. Richardson, A. Whiting. *Planning Studies:* Irene O. M. Binns, Lucy G. Hickford. [9]

FACULTY OF LAWS

Ph.D. S. J. Al-Kadhem, J. H. Baker, H. Cohen, D. D. Mowoe, P. O. Onaghise, G. O. Onagoruwa, J. L. Ryan, K. S. S. Saeed, S. Twum. [9]

M.Phil. N. Shimada. [1]

LL.M. (Old Regs.) ‡R. E. Dickson, A. V. Nerurkar, ‡F. O. Obi, R. M. Owen, B. Radha Krishna, ‡C. P. Seepersad. [6]

*Awarded a mark of distinction. †Also registered at another Institution. ‡External.

LL.M. (New Regs.) P. J. S. Adlam, A. B. K. Anane, F. R. O. Aruoture, D. C. Bernstein, P. L. Bradbury, J. M. Brander, B. A. Brobbey, Cheung Kwok Wai, Vera M. Chirwa, Margaret J. C. Cochrane, P. Côté, R. A. Crane, R. Décary, J. Emanuel, A. O. Amezirinwane, D. R. Evans, S. H. H. Fernando, D. G. Gibson, G. A. N. Igiehon, G. N. L. Ikegbuna, D. Johnson, Z. Kadom, R. A. Kasim, D. L. Larson, R. A. J. Lawrence, J. E. McCabe, R. A. Mohamed, S. A. Moore, S. I. Mosoff, M. K. Mukhopadhyay, A. A. Olafare, E. E. Osadebay, T. Pandit, T. A. Papatheodotou, D. A. R. Patrick, H-G. Petersmann, *D. G. Powles, G. M. E. Prest, A. K. Ranjha, G. O. O. Senbanjo, W. Shaffer, D. P. Shah, G. D. Shrestha, A. D. Syz, H. Teff, Ann V. Windsor, J. I. Yates. [47]

University Postgraduate Diploma in Law, 13. [13]

FACULTY OF SCIENCE

D.Sc. R. J. H. Clark. [1]

Ph.D. *Anatomy:* Jennifer S. Altman, M. J. Evans, A. R. Lieberman, Marion Nixon. *Architecture:* R. J. Hawkes. *Astronomy:* M. J. Disney, L. Wilson. *Biochemistry:* Jane E. Brown, P. Cohen, R. F. Cox, N. Evans, I. C. Hancock, C. Mahendran, Virginia M. Pain, E. D. Saggerson, Patricia T. Wade, B. G. Winchester. *Botany and Microbiology:* E. D. Ford, Margaret G. Mortimer, †R. J. Roughley, D. Y. Thomas, D. A. W. Wood. *Chemical Engineering:* R. J. H. Wilson. *Chemistry:* K. H. Al-Obaidi, D. Baxendale, A. F. Bradbury, G. L. Callewaert, D. Dodd, M. C. A. Donkersloot, H. D. Flack, J. Gauldie, A. M. Glazer, A. D. J. Goodwin, R. N. Hargreaves, J. W. Harris, D. W. Jopling, P. L. Josty, D. R. Joy, J. D. Kennedy, Dorothy M. Lamont, H. Lüth, D. Mitra, B. P. Roberts, P. W. Robinson, Falmai Roy, J. O. Thomas, †M. R. Topp, D. Vamplew, J. D. Wild, N. Winterton, S. K. Wong. *Electrical Engineering:* N. C. Bhagat, Mira Sen. *Geography:* Carolyn M. Harrison, Margaret J. McFarlane. *Geology:* P. J. Digby, A. I. H. Futyan, K. J. Henley, A. Kalantari, C. Mortimer. *History and Philosophy of Science:* J. M. Dubbey, Andrea J. O'Hara-May, A. J. M. Szanser. *Human Genetics and Biometry:* Sandra Rapley. *Mathematics:* M. D. A. Cooley, A. A. Holt, T. H. Jackson, Irene A. Moore, C. Yogachandran. *Pharmacology:* A. B. Morrison. *Physics:* A. M. Awan, B. Brook, M. A. M. Choudhury, R. P. Dewri, Elisabeth Fleming, P. C. James, E. N. Mgbenu, A. A. Owen, J. M. Robinson, V. B. Sheorey, T. P. Swetman. *Physiology:* Brenda R. Bigland. *Psychology:* L. R. Hartley, A. R. Pike, Zakia. *Statistics:* V. Siskind. *Zoology:* Louise A. Müller, N. J. Strausfeld. [88]

M.Phil. *Anatomy:* Gillian M. H. Edwards. *Geography:* Gillian M. Maxted, Patricia M. Page. *Physics:* M. L. Shaw. [4]

M.Sc. *History and Philosophy of Science:* K. H. Lane. [1]

M.Sc. in Science *Conservation:* P. N. Bradley, N. M. D. Brown, J. F. Handley, R. Mitchell, Patricia J. Pickard, D.J. Shorthouse. *Biochemical Engineering:* K. P. O'Kane, *H. B. Tan. *Biochemistry:* R. H. Bishop, I. G. Blair, Anne F. Blancquaert, D. Hewett-Emmett, Angel M. Rengifo, Angela C. Vincent. *Micropalaeontology:* Manijeh Barzegar Khalili, S. H. S. Basha, Catherine A. Croxton, M. Dempsey. *History and Philosophy of Science:*

*Awarded a mark of distinction. †Also registered at another Institution.

*Rachel C. Bush, June D. Whitcher. *History of Science:* *P. J. Austerfield, R. D. L. Bushell, D. Isaac, Carol M. O'Toole, P. H. Scrase. *Hydrogeology:* J. J. Carrillo Rivera, J. M. H. Coward, R. I. Khan, S. A. G. Paolillo, R. I. Vogwill. *Physiology:* R. E. Devonshire, A. J. Gray. *Statistics:* K. Afsarinejad, *Irene F. Cover, Z. E. A. A. R. El Beshir, *B. J. English, D. Haghighi-Talab, P. M. Hall, R. Picken, M. S. Richards, *A. F. M. Smith. *Vertebrate Palaeontology:* G. T. Alcorn. [42]

FACULTY OF ENGINEERING

Ph.D. *Chemical:* M. M. Osman, M. J. D. White. *Civil:* W. S. Andrew, T. Dunstan, S. S. Mohanka, W. J. Morris, F. R. Mondarres, D. N. Nwokoye, M. S. Rolls. *Electrical:* F. H. Baker, D. J. Chiasson, S. Dupu, E. M. A. Eid, K. A. Essuman, D. P. Morgan, J. D. Penney, I. Vakilzadeh, A. Walton. *Mechanical:* D. N. Anderson, A. M. Davies. [20]

M.Phil. *Mechanical:* G. J. Ball, V. Birkett, M. T. Carruthers. [3]

M.Sc. in Engineering *Biochemical:* P. M. Humphrey, I. Irvine, M. Jamie, F. O. Olatunji, *P. J. Radlett, S. J. Reynolds, B. C. Williams, *M. A. Winkler. *Microwaves and Quantum Electronics:* T. M. Christmas, M. E. Cleverley, M. J. Edridge, B. A. Holland, R. F. Humphryes, S. R. Judah, S. R. Longley, M. A. R. Pereira de Barros, N. B. Sultan, K. S. Uppal, M. Z. Wagiealla. *Photogrammetry:* R. L. Collin, A. S. MacDonald, A. E. C. Sepulvéda. [22]

FACULTY OF MEDICINE

M.D. O. C. J. Lippold. [1]

Ph.D. *Biophysics:* E. Stefani. [1]

*Awarded a mark of distinction.

APPENDIX X

COLLEGE AND UNIVERSITY AWARDS TO STUDENTS

COLLEGE AWARDS

Anatomy Prizes—Medical: M. G. Hulse. *Dental:* A. J. Feasey.

Charlotte Ashby Prize (*Laws*).—J. Reeder.

Babcock & Wilcox Medal and Prize (*Mechanical Engineering*).—L. Shepherd.

Sarah M. Baker Memorial Prize (*Botany*).—Valerie J. Gross.

Herbert Batsford Prize (*Architecture*).—P. Jackson.

Thomas Witherden Batt Scholarships (*Science*).—P. D. Bennewith; D. F. Evans; T. A. Getty; P. L. Giles; P. F. Randerson.

Leonard Bayliss Memorial Prize (*Physiology*).—M. J. Hunter.

Francis Perch Bedford Prize (*Zoology*).—Heather E. Whiting.

Benington Memorial Studentship (*Anthropometry & Craniology*).—Anna C. Berry.

Ada Heather Bigg Prize (*Economics*).—E. Katz.

Bonney Prize (*Geology*).—P. Applegate.

Brodrick-Parry Prize (*Geography*).—Catherine G. Gower.

The 'Building' Prize (*Architecture*).—(December 1968 award).—Katherine A. Marshall.

Carey Foster Research Prize (*Physics*).—J. Sharrock.

The Chadwick Medal and Prize (*Civil Engineering*).—G. W. Wilkinson.

Churchill-Jenkinson Prize (*Archive Administration*).—V. M. Gray.

Antonio Cippico Prize (*Italian*).—Flavia M. Lambert.

Lilian Clarke Prize (*Botany*).—Phyllis G. A. Whitehurst.

Clinton Prize (*Electrical Engineering*).—E. G. Pretty.

Cluff Memorial Prize (*Medical*).—Eleanor M. Price.

Cowley Prizes (*Librarianship*).—S. N. Davis and P. K. J. Wright, Prize equally divided.

Dawes Hicks Scholarship in Philosophy.—D. Conway.

Donaldson Medal (*Architecture*).—R. Tomkins.

Early English Text Society's Prize.—Caroline J. Campbell-Dixon.

Postgraduate Scholarship in Economics.—A. M. Millwood.

Fantham Memorial Research Scholarship (*Zoology*).—Jane L. Lewis.

Richard FitzGerald Prize (*Engineering*).—G. H. G. Lewis.

Sir Banister Fletcher Prize and Medal (*Architecture*).—A. A. L. Reid.

Foyle Prize (*Latin*).—J. T. Fitzgibbon.

Edith Goodyear Prize (*Geology*).—R. Hall.

Violet Hall Prize (*French*).—T. Wilkinson.

Archibald P. Head Medals and Prize (*Electrical Engineering*).—W. E. Cowley and H. W. Kelly, Prize equally divided.

Heimann Medal (*German*).—C. R. S. Taylor.

Henriques Scholarship (*Fine Art*).—Daphne J. Todd.

T. H. Hill Scholarships (*Botany*).—I. R. Joint; G. Orbell.

Elsie Hitchcock Prize (*English*).—Katherine J. Hudson.

Hollier Scholarships in Greek.—M. W. Haslam; D. R. Marsh.

R. B. Hounsfield Prize in Traffic Engineering.—G. R. D. Marshall.

R. B. Hounsfield Prize in Town Planning and Civic Engineering.—L. E. Almond.

Hurst Prize in English Law.—A. Grant.

Institution of Electrical Engineers Prize.—M. B. Warburton.

Jackson Lewis Scholarships.—Camilla Amirouchova; Malin C. E. Andrews; R. A. Brown; P. G. K. Fernando; Elizabeth M. Menzies; R. J. L. Stewart.

Jolowicz Prize (*Roman Law*).—Alison C. Steff.

Ker Memorial Prize (*English*).—Jennifer A. Shackleton.

Kitson Prize (*Chemical Engineering*).—J. M. Tyas.

Lloyd Scholarship in Modern Greek.—D. Tsekourakis.

Librarianship Exhibitions.—J. J. Ballantyne; R. N. Whalley.

Sir John MacAlister Medal (*Librarianship*).—M. A. Jahn.

Betty Malcolm Scholarship (*Stage and Decorative Painting*).—Susan Ffitch.

Malden Scholarship (*Greek*).—D. Hughes.

Sir William Meyer Prize (*Geography*).—J. B. Naylor.

Sir William Meyer Prize (*History*).—P. N. Guthrie.

Sir William Meyer Travelling Studentships (*History*).—P. K. Baxter; S. Bibby; Valerie Bott; C. Farthing; M. L. Swiggs; R. F. Tarrant.

John Stuart Mill Scholarship in Philosophy of Mind and Logic.—D. Conway.

Momber Scholarship in Physics.—C. F. Rogers.

Morley Medal (*Modern English Literature*).—Sarah E. Thesiger.

Morris Prize (*Geology*).—A. G. Doré.

Oliver Scholarship (*Botany*).—T. C. Marks.

Worshipful Company of Pewterers' Postgraduate Studentship in London History.—W. Calderwood.

Physiology Prizes.—*Medical:* Patricia A. Mansbridge. *Dental:* W. Mealing.

Platt Prizes (*Greek*).—S. G. York; D. S. Welham.

Theodora Prankerd Memorial Scholarships in Botany.—Jane C. North.

Ramsay Memorial Medal (*Chemistry*).—P. L. Martin.

Alfred W. Rich Scholarship (*Fine Art*).—P. G. Deacon.

Ellen Richards Prize (*Botany*).—Valerie J. Gross.

Mary Rischgitz Prize (*Fine Art*).—Susan Engledow.

Graham Robertson Travelling Scholarship (*Fine Art*).—P. G. Deacon.

Slade Scholarship (*Fine Art*).—N. J. P. Wegner; P. G. Deacon; B. Llewellyn-Jones.

Stevenson Prize (*Applied Mathematics*).—E. W. Davies.

Suckling Memorial Prize (*Practical Anatomy*).—Magdalen J. Weld.

Sully Scholarship (*Psychology*).—G. D. Gaskell.

Sir Andrew Taylor Prize in Architecture.—M. E. Brod.

Taylor Woodrow Travelling Scholarship (*Civil Engineering*).—G. H. G. Lewis and G. W. Wilkinson, Scholarship equally divided.

Henry Tonks Prize (*Fine Art*).—Christine Adams.

Trevelyan Goodall Art Scholarship.—C. G. Barger.

Tuffnell Scholarship (*Chemistry*).—D. Griller.

L. F. Vernon-Harcourt Prize (*Civil Engineering*).—J. S. Davison.

Ellen Watson Memorial Scholarship (*Applied Mathematics*).—I. C. Walton.

Audrey Wykeham Prize (*Fine Art*).—J. H. Martin and Frances E. Newman, Prize equally divided.

FACULTY MEDALS AND PRIZES

Laws: Andrews Medal and Prize.—B. Smyth.

Engineering: Goldsmid Medal and Prize.—A. W. Brench.

SESSIONAL PRIZES

Anthropology: Rosa Morison Prize.—B. J. Sharpe.

English: Campbell Clarke Scholarships.—(1) Charlotte P. M. Boydell. (2) Jennifer A. Shackleton.

West Scholarship.—M. F. Elphee.

French: Rosa Morison Prizes.—(1) Sally A. Lukes. (2) Catherine Moreton. (3) Marilyn J. Price. (4) Elizabeth S. Weetch.

Geography: College Prize.—Eileen M. Evans. *Maconochie Prize.*—R. J. Huggett. *1903 Prize.*—Sarah M. Kirk.

German: Robertson Prize.—Jennifer A. Evans. *Willoughby Prize.*—Mary M. Robinson.

Greek: Long Prize.—J. Feneron and Sarah A. Yeadon, Prize equally divided.

History: Pollard Prize.—R. A. Brown, Margaret Davies and Sandra Dobney, Prize equally divided. *West Prize.*—B. Mains.

Italian: Sir Anthony Panizzi Prize.—Diana S. Francis.

Latin: Key Prize.—J. Feneron.

Scandinavian Studies: Rosa Morison Prize.—Margaret E. Corfield.

Laws: Andrews Prizes.—(1) J. M. Fulthorp, (2) A. Grant, (3) R. D. James, (4) R. I. Lewis, (5) Lesley Y. Willetts.

Architecture: Bartlett Prizes.—(1) M. J. Elliott. (2) J. J. Boon, N. L. Evans and Claire Sellick-Smith, Prize equally divided.

Biochemistry: Jack Drummond Prize.—B. Scott. *Plimmer Prize:* Sarah J. Flint.

Botany: Darwin Prize.—Margaret A. Mace. *Robert Hooke Prize.*—N. A. C. Curtis.

Chemistry: C. K. Ingold Prizes.—(1) M. K. Franks. (2) T. Kupasrimonkol. (3) G. R. Clow.

Geology: Chubb Prize.—C. B. Hinchcliffe and Susan E. Pryce, Prize equally divided.

Mathematics: Filon Prize.—Hilary C. B. Curran. *Hill Prize.*—M. Cohen. *Jeffery Prize.*—A. J. T. M. Ostoja-Ostaszewski and R. Tongue, Prize equally divided.

Physics: William Bragg Prize.—A. G. Michette. *Oliver Lodge Prize.*—Valerie E. Tross. *Wood Prize.*—D. R. Quarrie.

Physiology: Sanderson Prize.—A. Verrinder.

Psychology: McDougall Prize.—Lynn Gilbert and K. P. Timms, Prize equally divided. *Spearman Prize.*—Jean E. O. Miller.

Statistics: Egon Pearson Prize.—B. Leventhal. *Karl Pearson Prize.*—Low Wan Loy.

Zoology: Linda C. Allonby and Maureen L. Shearman, Prize equally divided.

Chemical Engineering: Goldsmid Prizes.—(1) R. Martin Roure. (2) N. Burgin and M. C. Singer, Prize equally divided.

Civil and Municipal Engineering: Goldsmid Prizes.—(1) H. D. St John. (2) G. D. Hobbs and M. E. Pitt, Prize equally divided.

Electronic and Electrical Engineering: Goldsmid Prizes.—(1) R. G. Bryant. (2) R. C. Nicol.

Mechanical Engineering: Goldsmid Prizes.—(1) C. N. Palmer. (2) K. C. De Brass.

UNIVERSITY AWARDS

UNIVERSITY POSTGRADUATE STUDENTSHIPS

Anatomy: T. R. Price. *Botany:* Mary E. Studley. *Chemistry:* A. G. Knapp; F. L. Pearce (Arthur Jubber Studentship). *Classics:* D. Hughes. *Engineering:* L. R. Fellingham; P. K. Y. Tsang. *English:* R. K. Briffett; P. G. Diamond; G. C. Hammond. *French:* Catherine M. Darrall. *Geography:* Barbara S. Field; G. E. Hollis. *German:* Bertha E. Spurway. *Greek:* M. W. Haslam. *Hebrew:* Ada Rapoport. *History:* D. H. Barry. *Italian:* K. P. Rink. *Pharmacology:* *M. J. Jarvis. *Physics:* M. I. Gillespie. *Physiology:* P. E. Harrison-Read.

*Also registered at Birkbeck College.

APPENDIX XI

UNIVERSITY FIRST DEGREE AND DIPLOMA EXAMINATION RESULTS

FACULTY OF ARTS

B.A. Honours	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Total
Anthropology	—	—	1	—	1
Classics	2	2	5	5	14
English	3	6	9	11	29
French	5	10	3	3	21
German	2	11	8	1	22
Hebrew	2	2	2	—	6
Hebrew Lit. & Jewish History	—	2	—	—	2
History	1	24	12	—	37
Italian	1	3	2	1	7
Philosophy	2	10	5	—	17
Scandinavian Languages	—	2	2	—	4
	18	72	49	21	160

B.A. (Aegrotat)	Pass	Total
Philosophy	1	1

B.A. Honours in Architecture, Planning and Building	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Total
	—	—	1	—	1

University Diploma in Fine Art: 25 students passed.

FACULTY OF LAWS

	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Pass	Total
LL.B.	5	17	42	10	11	85

FACULTY OF SCIENCE

B.Sc. Degree	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Pass	Total
Anatomy	4	4	1	—	—	9
Anthropology	2	5	4	3	—	14
Astronomy	1	3	1	—	—	5
Biochemistry	5	10	8	4	—	27
Botany	—	3	6	1	—	10
Chemistry	8	11	15	9	13	56
Geography	3	39	10	—	—	52
Geography & Librarianship	—	1	—	—	—	1
Geology	2	5	7	3	—	17
Mathematics	8	5	20	4	3	40
Mathematics & Librarianship	—	—	1	—	—	1
Microbiology	3	4	6	—	—	13
Pharmacology	4	7	1	—	—	12
Physics	3	7	10	4	5	29
Physiology	2	4	10	1	—	17
Psychology	5	8	12	—	1	26
Statistics	3	—	6	4	—	13
Zoology	3	5	4	2	—	14
	56	121	122	35	22	356

B.Sc. in Architecture, Planning and Building	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Pass	Total
	6	10	16	4	1	37

B.Sc. (Special)	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Pass	Total
Biochemistry	—	—	2	1	—	3
Chemistry	—	2	1	—	—	3
Geography	—	1	—	1	—	2
Geology	—	—	—	1	—	1
Microbiology	—	—	2	—	—	2
Physiology	—	—	1	—	—	1
Psychology	—	2	—	—	—	2
Statistics	1	—	—	—	—	1
	1	5	6	3	—	15

B.Sc. Degree (Old Regulations)	Pass	Total
Chemistry	2	2

B.Sc. (Special) in Architecture, Planning and Building	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Total
	—	—	2	2	4

FACULTY OF ENGINEERING

	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Pass	Total
B.Sc. (Engineering)	14	28	19	11	2	74
B.Sc. (Engineering) in Chemical Engineering	4	7	4	6	2	23

FACULTY OF ECONOMICS

	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Pass	Total
B.Sc. (Economics) College Regulations	2	16	29	8	1	56
B.Sc. (Economics) Former Regulations	—	—	2	—	—	2

FACULTY OF MEDICINE

Second Examination for Medical Degrees: 89 students passed.

Second Examination for Dental Degrees: 48 students passed.

APPENDIX XII

COLLEGE DIPLOMAS AND CERTIFICATES

FACULTY OF ARTS

Diploma in English Linguistic Studies: Eleftherios Panagopoulos; Edoh Robinson Ufot. [2]

Diploma in Film Studies: Lutz Gerhard Becker; Lisa Simonetta Pontecorvo. [2]

Diploma in Urban Studies (Developing Countries): Hussein Siddig Mohd Ahmed; Luis Gonzalo Cadavid; Waraheneliyanage Edward Vernon Shirley De Alwis; Ester Bravo De La Cruz; Daphne Constance Kelly; Vasant Tukaram Korde; Utkatu Naiker; T. O. Khathir Pillai; Alfonso Cervana Sales; Peter Benjamin Osborne Sam; Pranabananda Sen; Muhammed Ashique Siddiqui; Justin Iyorbee Tseayo; Lita Velmonte. [14]

Certificate of Proficiency in Phonetics: Wolf-Dietrich Bald; Anjali Banerji; Christiane Violette Francoise Casays; Angela Yuen Yuen Chan; Marie-Blanche Alix Du Laurens; Catherine Gloria Madeleine Escarras; Pierluigi Fontana; Bennetta Hamilton; Anna Handeland; Jeremy John Fairclough Harrison; Wolfgang Johannsen; Jillian Nevillie Karlik; Anne McCheyne; Kenneth Andrew Money; Jennifer Helen Moorwood; Laura Pieraccini; Eileen Alice Piercy; Carlos Salvador Vollet Sachs; Rene Theodore Waringo; Rainer Jurgen Weber; Rosalind Lucille Florence Withers. [21]

Certificate in Town Planning: Harry Anthony Fawcett; Nina Keshishian; Peter Makower; Brian James Wood. [4]

FACULTY OF LAWS

Certificate in English and American Law: Edward Austin Belmont; Richard Michael Blumberg; Richard Orion Bovey; Joseph Anthony Camarra; Thomas Anthony Digrazia; Patric Jeffrey Doherty; James Eloi Doyle; John Patrick Forhan; James Alan Hardgrove; Kenneth Allan Iverson; Richard Matthew Jordan; Joseph Edward Kane; William Clarence Keck; Thomas Ries; Daniel Anthony Rybak; Philip Joseph Schmidt; John Francis Tully; Richard Paul Tuohy. [18]

FACULTY OF SCIENCE

Diploma in Hydrogeology: Samuel Folorunsho Adefila; Jose Joel Carrillo Rivera; Julian Michael Henry Coward; Christos Ioannou; Rafidul Islam Khan; Sandro Antonio Gabriele Paolillo; Richard Ian Vogwill. [7]

Diploma in Micropalaeontology: John Backhouse; Ian Richard Hoskin; Judith Annette Owen. [3]

Diploma in Space Science: Leandro Fernandez Sainz; Anthony Gartner; Peter William Hempson; Victor Garth Shaw; Allen Edward Smith; Susan Alice Smith. [6]

FACULTY OF ENGINEERING

Diploma in Biochemical Engineering: Peter Michael Humphrey; Ian Irvine; Muhammad Jamil; Kevin Patrick O'Kane; Francis Oladipo Olatunji; Peter James Radlett; Stephen James Reynolds; David Lloyd Rogers; Hui Boon Tan; Brian Challenger Williams; Michael Alan Winkler. [11]

Diploma in Chemical Engineering: Ha Ming Ang; Raymond Sydney Colvin; Robert Dudley Handscombe; Aslam Hayat; Max Norman Marks; Philip Arnold Marriott; Patrick Hartley Palmer; Bipinbhai Hirabhai Patel; Richard John Paterson; Firouz Salour; Graham John Sherwood; Yunus Nadi Yucesoy. [12]

Diploma in Microwave Engineering: Saurindra Nath Bhaduri; Terence Michael Christmas; Michael Edward Cleverley; Michael John Edridge; Andre John Hissink; Reza Hodjati; Brian Alfred Holland; Reginald Frederick Humphryes; Sunil Reuben Judah; Nirmal Singh Lotay; Manuel Antonio Riberio Pereira de Barros; Nizar Badih Sultan; Kewal Singh Uppal; Mamoun Zeinelabdin Wagiealla. [14]

Diploma in Photogrammetry: Muhammad Sharif Bhatti; Patrick Feltrim Fagan; Peter McCausland Gibbs; Ahmad Said; Christopher Noel Thompson; James Brian Wigglesworth. [6]

Diploma in Surveying: Thomas Oliver Crompton; Alan Johnston. [2]

APPENDIX XIII

BENEFACTIONS, DONATIONS, RESEARCH GRANTS AND CONTRACTS

The College Committee makes grateful acknowledgment of the following:

Agricultural Research Council

£1,540 for research in the Department of Chemistry on the control mechanisms in the biosynthesis of terpenes in higher plants.

Albright and Wilson Limited

£2,100 for a research studentship in the Department of Chemistry.

American Chemical Society

$10,000 for research in the Department of Chemistry on cycloadditions of allylic cations to conjugated dienes.

American Heart Association Inc.

$750 for a fellowship supply allowance in the Department of Physiology.

The Anstruther 1966 Canada Trust

£50 for the Library for preliminary expenses in connection with a possible scheme to enable work to be carried out on the sorting and indexing of the Chadwick papers.

The Arthritis and Rheumatism Council

£900 per annum for three years for research in the Department of Physiology on mechanical properties of connective tissue.

The Family of Charlotte Ashby

A gift of £800 to found an annual Prize in memory of the late Charlotte Ashby, a student of the Faculty of Laws, 1963–66, and an annual sum to make up the value of the Prize to 50 guineas; and two donations of 50 guineas each for the award of the Prize for 1965–66 and 1966–67.

Asthma Research Council

£1,200 for research in the Department of Pharmacology on problems of mechanisms of anaphylaxis.

Beecham Group Limited

£15,000 for the Department of Chemical Engineering for research related to the enzyme penicillin amidase.

The British Academy

£3,500 for 1968–69 and £3,880 for 1969–70 for work in the Department of Greek on unpublished Oxyrhynchus Papyri.

The British Diabetic Association

£6,000 for research in the Department of Biochemistry on insulin and protein synthesis.

British Empire Cancer Campaign for Research

£1,898 and £71 for research in the Department of Pharmacology on tumour immunology.

British Railways Board

£7,000 for research in the Department of Electronic and Electrical Engineering on surface waveguides.

California Foundation for Biochemical Research

$1,500 for a studentship in the Department of Botany and Microbiology.

Miss Jane E. M. Somers Cocks

A bequest to the University of London of an egyptological collection containing slides, negatives, catalogues, books, lectures, and notes, to be placed in the Department of Egyptology at University College.

Cold Rolled Sections Association

£1,250 for research in the Department of Civil and Municipal Engineering on cold rolled sections.

Construction Industry Research and Information Association

£6,000 for the Department of Civil and Municipal Engineering for assessment of structural quality of timber.

Department of Employment and Productivity

£9,859 for the Department of Psychology for research projects at the Industrial Training Research Unit.

The Dow Chemical Company

$2,500 for the Department of Electronic and Electrical Engineering, on the nomination of Mr R. C. Mildner, a former student, who was empowered to name the recipient of the gift on his appointment as Research Scientist in the Company. The gift is being used to institute 'The Mildner Lecture', as a biennial public lecture in the field of electronic and electrical engineering.

Electricity Supply Industry Training Board

£16,068 for research in the Department of Psychology on the validation of selection tests in the Electricity Supply Industry.

Esso Petroleum Company Limited

£290 for the Department of Geology for research in micropalaeontology.

Federal Water Pollution Control Administration

$3,888 and $1,316 for research in the Department of Civil and Municipal Engineering on multilayer filtration.

Geigy (U.K.) Limited

£200 and £500 for the Department of Botany and Microbiology for toxicity testing of drugs at the cellular level.

General Electric Company (New York)

£3,000 for the Department of Electronic and Electrical Engineering for research in the area of acoustic holography.

Mr B. W. Goodman

£500 for the University College London Union to be used at the Provost's discretion for the particular benefit of the Students' Union Building.

The Grocers' Company

An increase in the grant for the Stephen Glanville Memorial Award, from £200 per annum to £400 per annum, from 1969–70.

Home Office

£100 for research in the Department of Psychology on recidivism of young offenders.

Imperial Chemical Industries Limited

(1) £779 for the Department of Chemical Engineering for the purchase of XY/T plotter.

(2) £30 per annum from January 1969 to September 1970 to supplement a research studentship in the Department of Chemistry.

Imperial Chemical Industries Fibres Limited

£1,107 for a research studentship in the Department of Chemistry.

Industrial Distributors (Sales) Limited

£750 for research in the Department of Chemistry on diamonds.

The Institution of Electrical Engineers

£50 per annum for an annual prize in the Department of Electronic and Electrical Engineering.

International Business Machines

£122 10*s*. for a fellowship in the Department of Physics.

Professor Raymond Irwin

A gift by Professor Irwin, on his retirement, of the round burr-walnut table in his room, in recognition of twenty-four years' very happy work in the College.

Sir Percival Maitland Laurence Fund, University of Cambridge

£1,500 for work in the Department of Greek on unpublished Oxyrhynchus Papyri.

Medical Research Council

(1) £6,010 for research in the Department of Anatomy and Embryology on the development *in vitro* of connections between neurons and between neurons and muscles.

(2) £4,025 for research in the Department of Anatomy and Embryology on electron microscopy of excitatory and inhibitory synapses.

(3) £4,025 for an investigation in the Department of Anatomy and Embryology of transmitter substances in octopus brain.

(4) £9,155 for research in the Department of Biochemistry and at the London School of Hygiene and Tropical Medicine, on the effect of the dietary and hormonal factors on the turnover rate of muscle proteins.

(5) £2,390 for research in the Department of Botany and Microbiology on biogenesis of mitochondria.

(6) £9,127 for research in the Department of Chemistry on the structures of molecules active in cholinergic systems.

(7) £7,595 for an investigation in the Department of Chemistry of the structure and mode of action of phospholipase A from bee venom.

(8) £90 for the Department of Chemistry for crystallographic studies of urinary calculi and other concretions.

(9) £3,234 for research in the Department of Human Genetics and Biometry on the variation of colour vision and chemical perception.

(10) £8,172 for research in the Department of Mechanical Engineering on portable energy supplies for powered prostheses.

(11) £12,100 and £8,853 for research in the Departments of Pharmacology and Anatomy and Embryology on transmitters in the C.N.S.

(12) £4,563 and £522 for research in the Department of Pharmacology on changes in the cell surface accompanying the secretion of histamine from isolated mast cells and leucocytes.

(13) £2,526 for the Department of Pharmacology for a further investigation into the mechanism of passive sensitization.

(14) £2,141 for the Department of Pharmacology for a comparison of the biochemical and morphological changes occurring in isolated cells during anaphylaxis.

(15) £1,695 and £210 for the study in the Department of Pharmacology of desensitization and resensitization in the anaphylactic reaction of smooth muscle.

(16) £6,705 for the Department of Physiology for a physiological investigation of adaptive changes in the central nervous system.

(17) £5,591 for research in the Department of Physiology on comparative physiology of muscular energetics.

(18) £1,919 for research in the Department of Physiology on transient responses of active muscle fibres.

(19) £930 for research in the Department of Physiology on the nature of mechanical linkages in connective tissue framework.

Medical Research Council (Canada)

$1,250 for a supply allowance for a visiting scientist in the Department of Human Genetics and Biometry.

R. C. Mildner

See The Dow Chemical Company.

Ministry of Defence

(1) £1,802 for an investigation in the Department of Civil and Municipal Engineering on lightweight shelters.

(2) £14,150 for the Department of Electronic and Electrical Engineering for computer studies of semiconductor devices.

(3) £3,419 for the Department of Electronic and Electrical Engineering for digital computer studies of self-adaptive filtering systems.

(4) £1,012 for a study in the Department of Electronic and Electrical Engineering of growing wave interaction in periodically perturbed semiconductors.

(5) £775 for the Department of Electronic and Electrical Engineering for research on large signal operation of DC pumped ring valve.

Ministry of Health

£5,600 for research in the Department of Mechanical Engineering on the control of artificial arms.

Ministry of Overseas Development

£150, through the British Council, towards the expenses of a Visiting Fellow in the Department of Botany and Microbiology.

Ministry of Public Building and Works

(1) £6,355 for the Bartlett School of Architecture to study the timetable of the building process.

(2) £500, £425, and £35 for the Bartlett School of Architecture to study the behavioural and environmental characteristics of doors.

Ministry of Technology

(1) £2,652 for research in the Department of Chemical Engineering on particle mixing in gas fluidised beds.

(2) £800 and £1,589 for research in the Department of Chemical Engineering on the spontaneous ignition of pure hydrocarbons.

(3) £2,130 for research in the Department of Chemistry on rare earth chelate complexes.

(4) £2,019 for the Department of Chemistry for experimental comparison of bond strengths of various inorganic links of interest in the high temperature polymer field.

(5) £1,419 and £50 for research in the Department of Chemistry on olefin activation and polymerisation.

(6) £3,106 for research in the Department of Electronic and Electrical Engineering on acoustic wave surface techniques.

(7) £42 for the Department of Mathematics for theoretical investigation of wing-body interaction.

(8) £3,875 for research in the Department of Mechanical Engineering on fatigue behaviour of close-packed hexagonal metals and prediction of the fatigue life of non-magnetic metals.

(9) £2,648 and £67 for research in the Department of Mechanical Engineering on the performance of flame traps under given conditions.

(10) £2,036 for research in the Department of Mechanical Engineering on cumulative fatigue damage.

Ministry of Transport

£475 for research in the Department of Geography on the transport consequences of office decentralisation.

The Multiple Sclerosis Society

£4,938 for research in the Department of Anatomy and Embryology on the pathogenesis of experimental allergic neuritis and its relationship to clinical neuropathies and multiple sclerosis.

Muscular Dystrophy Associations of America Inc.

$6,800 for research in the Department of Biophysics on the role of ionic interactions in metabolic control.

The National Computing Centre

(1) £2,472 for the Computer Centre for an assessment of software efficiency.

(2) £1,150 for the Computer Centre for an investigation on the Fortran Syntax checker.

National Fund for Research into Crippling Diseases

£1,712 for research in the Department of Physiology on plastic changes in the electrical activity of the cerebral cortex.

National Research Development Corporation

(1) £6,332 for research in the Department of Chemical Engineering on polymer bound enzymes.

(2) £3,100 for the Departments of Chemical Engineering and Botany and Microbiology for the construction of continuous liquid chromatography apparatus.

(3) £3,730 for research in the Department of Chemistry on peptides from bee venom.

(4) £4,000 for the Department of Physics for the development of a vibrating capacitor non-destructive charge readout.

National Science Foundation, U.S.A.

(1) $500 for a fellowship expenses allowance in the Department of Biophysics.

(2) $500 for a fellowship supply allowance in the Department of Chemistry.

(3) $200 for a fellowship supply allowance in the Department of Physiology.

(4) $500 for a fellowship allowance for the Student Health Association.

Natural Environment Research Council

(1) £500 for the Department of Chemistry for studies of mineral inclusions in diamonds.

(2) £2,952 for research in the Department of Civil and Municipal Engineering on the strength and stress-strain behaviour of layered soils.

(3) £194 for the Department of Geography to study the ecology of shifting cultivation in the Upper Orinoco area of Venezuela.

(4) £2,000 for research in the Department of Geology on stratigraphy, palaeontology and micropalaeontology of the Jurassic rocks of Portugal and similar rocks occurring in the Swiss Jura.

(5) £1,564 for the Department of Geology for palaeomagnetic and mineralogical studies relating to basic intrusions of Ardnamurchan and Freetown.

North Atlantic Treaty Organisation

(1) $6,720 for research in the Department of Chemical Engineering on hydrodynamics of fluidised particles with reference to chemical reactors.

(2) $2,000 for research in the Department of Chemistry on centrifugal distortion and molecular force fields.

(3) $8,000 and $1,000 for the Department of Physics in support of a summer school on space experiment design.

The Nuffield Foundation

(1) £500 for the Department of Anthropology for the study of economic cycles and primitive exchange systems.

(2) £10,000 for studies in the Department of Chemistry on the formation, prevention and dissolution of crystals occurring pathologically in man.

Political and Economic Planning

£200 for the Bartlett School of Architecture for the Addington Study.

Post Office Contracts Department

£1,175 for the Department of Electronic and Electrical Engineering for mathematical studies of optical wave propagation in glass fibre tapers.

Roche Products Limited

£13,500 for research in the Department of Pharmacology on the action of psychotropic drugs.

The Joseph Rowntree Charitable Trust

£20,000 in support of the Centre for the Analysis of Conflict within the Faculty of Laws.

Royal Institute of British Architects

£791 for a study in the Bartlett School of Architecture of attitudes of architectural and civil engineering students to the two professions.

The Royal Society

(1) £195 for the Department of Anthropology for studies on the Hadza of Tanzania.

(2) £250 for research in the Department of Botany and Microbiology on biosynthesis of unusual amino acids and Aesculus Californica.

(3) £400 for research in the Department of Chemistry on the preparation of transition-metal carbonyl and organometallic derivatives.

(4) £500 for research in the Department of Physics on the measurement of atmospheric emission in the infra-red.

R. J. Sainsbury Charitable Fund

Two grants of £2,500 each for the Slade School of Fine Art for the benefit of young sculptors.

School of Oriental and African Studies

£1,000 for the Computer Centre for the listings of sound features in Sir Ralph Turner's Comparative Dictionary of the Indo-Aryan languages.

Schools Council

£47,000 for research in the Department of General Linguistics on linguistics and English teaching.

Science Research Council

(1) £8,900 and £621 for research in the Department of Anatomy and Embryology on scanning electron microscopy of biological tissues.

(2) £4,464 for research in the Bartlett School of Architecture on adaptation in complex field situations.

(3) £1,727 and £890 for an investigation in the Bartlett School of Architecture of the subjective effects of artificial reverberation in auditoria.

(4) £2,596 for investigations in the Department of Astronomy of the exospheric densities and general perturbations of high-orbit satellites.

(5) £851 for an investigation in the Department of Astronomy to relate observational and theoretical studies of interstellar medium.

(6) £734 for equipment in the Department of Astronomy for visual observers of satellites.

(7) £142 for the Department of Astronomy for solar activity service and research.

(8) £9,127 for research in the Department of Biochemistry on the mechanism of action of dehydrogenases and sulphydryl containing proteases.

(9) £5,773 for the Department of Biochemistry for *Pseudomonas aeruginosa* amidase amino-acid analysis of wild type and mutant proteins.

(10) £4,512 for research in the Department of Biochemistry on enzymology and biological function of isolated nuclei and their components.

(11) £1,302 and £3,352 for research in the Department of Biochemistry on the regulation of nitrogen metabolism during osmotic adaptation in aquatic animals.

(12) £451 for research in the Department of Biochemistry on the application of computers to liquid scintillation counting.

(13) £496 and £50 for research in the Department of Biochemistry on protein synthesis in mitochondria.

(14) £4,810 for an investigation in the Department of Botany and Microbiology on the synthesis and distribution of nucleic acids and lipids in the egg cells of a plant.

(15) £2,544 for research in the Department of Botany and Microbiology on non-protein amino acids analogue behaviour and control of biosynthesis.

(16) £9,207 for research in the Department of Chemical Engineering on redox transferring membranes.

(17) £1,749 for the Department of Chemical Engineering for a mass spectrometric study of free radical intermediates in combustion reactions.

(18) £4,911 for the Department of Chemistry for structural studies and mechanisms of solid-state reactions.

(19) £3,589 for research in the Department of Chemistry on the cationic counterpart of the ene-reaction.

(20) £3,589 for research in the Department of Chemistry on the stabilisation of organic molecules as transition metal complexes.

(21) £3,500 for research in the Department of Chemistry on the enhancement of signal/noise ratio in NMR spectroscopy.

(22) £3,380 for research in the Department of Chemistry on the synthesis of large ring conjugated systems.

(23) £3,380 for the Department of Chemistry for low temperature magnetic anistropy investigations.

(24) £3,350 for research in the Department of Chemistry on the reactivity of organo-metallic compounds.

(25) £3,350 for research in the Department of Chemistry on the mechanism of hydrolysis of organic phosphates by acid phosphatases.

(26) £3,172 for research in the Department of Chemistry on infra-red and ultra-violet spectra of metal carbonyl and olefin complexes.

(27) £2,870 for research in the Department of Chemistry on energy transfer in molecular collisions.

(28) £1,734 for research in the Department of Chemistry on the reaction of metal olefin complexes.

(29) £1,731 for research in the Department of Chemistry on high resolution molecular electron spectroscopy.

(30) £1,298 for research in the Department of Chemistry on homolytic and heterolytic reactions of organo metallic compounds.

(31) £148 for research in the Department of Chemistry on the structure of carbonyls.

(32) £60 for research in the Department of Chemistry on nuclear quadrupole resonance spectra of inorganic molecules.

(33) £3,660 for analytical investigation in the Department of Civil and Municipal Engineering of the stability and non-linear behaviour of doubly curved shells.

(34) £1,520 for research in the Department of Civil and Municipal Engineering on statistical measurements of anisotropy in granular soils.

(35) £4,468 for the study in the Department of Electronic and Electrical Engineering of a diffraction optical modulator.

(36) £1,620 for the Department of Phonetics for speech processing and choice reaction time experiments.

(37) £201,000 for the Department of Physics for the setting up of Gargamelle Film Analysis Unit.

(38) £10,000 for the Department of Physics for geophysical and astronomical researches in Space.

(39) £9,200 and £700 for the Department of Physics for the development of studies of resonance in atoms and molecules.

(40) £8,542 for research in the Department of Physics on electron collisions with positive ions.

(41) £6,780, under an agreement with the Rutherford High Energy Laboratory, for an investigation in the Department of Physics entitled 'a search for the intermediate boson'.

(42) £6,420 for the Department of Physics for co-operative atmospheric research with SUPARCO, Pakistan.

(43) £5,000 for a study in the Department of Physics of ion-molecule collisions in a drift-tube.

(44) £3,819 for the Department of Physics for infra-red studies with balloon-borne equipment.

(45) £3,167 for an investigation in the Department of Physics of k meson scattering phenomena.

(46) Two grants of £700 each for a $\overline{K}$ heavy liquid bubble chamber experiment in the Department of Physics.

(47) £50 for research in the Department of Physics on variational techniques in electron scattering.

(48) £450 and £250 for research in the Department of Zoology and Comparative Anatomy on the embryology of anuran amphibia.

SHELL INTERNATIONAL PETROLEUM COMPANY LIMITED

(1) £90 for the Department of Chemistry towards the cost of a new fume chamber.

(2) £1,500 per annum for three years for the Department of Mechanical Engineering in support of an M.Sc. inter-collegiate course in Ergonomics.

SMITH KLINE AND FRENCH FOUNDATION

£1,890 for the Department of Pharmacology for the purchase of a desk-top computer.

Social Science Research Council

(1) £4,032 for research in the Department of Anthropology on the changing position of woman in Ethiopia.

(2) £1,892 for research in the Department of Anthropology on the social determinants of belief studied in an English community of nuns.

(3) £275 for a study in the Department of Anthropology of cultural responses to innovation in South Tanzania with special reference to the history of the Ngindo.

(4) £11,358 for a study in the Bartlett School of Architecture on changes in students' performance on personality tests during university courses.

(5) £8,270 for the Slade School of Fine Art for the organisation and use of film and other audio-visual material for historical studies.

(6) £5,700 for research in the Department of History on the social structure of the ancient city.

Span Kent Limited

£8,000 for surveys in the Bartlett School of Architecture relating to the social development of New Ash Green.

Standard Telecommunication Laboratories Limited

£1,100 for research in the Department of Electronic and Electrical Engineering on guided acoustic surface waves.

S.T.C. Semiconductors Limited

Provision of equipment to the value of approximately £9,000 for the nominal amount of £200 for work in the Department of Electronic and Electrical Engineering on semiconductor devices.

Sir Halley Stewart Trust

£7,900 for the Department of Human Genetics and Biometry for the support of a Lecturer in Clinical Genetics.

Tin Research Institute

£1,600 for a research studentship in the Department of Chemistry.

Treatise on Invertebrate Palaeontology

$2,500 to provide assistance in the Department of Geology for the revision of the Treatise.

United Kingdom Atomic Energy Authority

(1) £1,600 for research in the Department of Geology into the mechanics of fracture propagation in elastic–plastic solids with particular reference to faults in rock and to earthquake source mechanisms.

(2) £4,800 for the Department of Physics for the development of a vibrating capacitor non-destructive charge readout.

United States Air Force

$20,000 for the Department of Physics for the determination of air density, temperature and winds at high altitude.

United States National Institutes of Health

$6,100 for the Department of Biochemistry for computer simulation of metabolic control.

United States Public Health Service

(1) $20,500 for the Department of Anatomy and Embryology for studies of CNS cells receiving visceral afferents.

(2) $1,000 for a fellowship supply allowance in the Department of Anatomy and Embryology.

(3) $1,000 for a fellowship supply allowance in the Bartlett School of Architecture.

(4) Two grants of $1,000 each for fellowship supply allowances in the Department of Biophysics.

(5) $1,000 for fellowship expenses in the Department of Chemistry.

(6) $38,070 for research in the Departments of Pharmacology and Psychology, and in the Department of Psychology, Birkbeck College, on the psychopharmacology of learning, perception and skill.

The Wates Foundation

£1,000 towards the cost of building an extension on the top three floors of the Biological Sciences Building. [We regret that this benefaction was recorded in our last Report as a grant from Messrs Wates Limited.]

The Wellcome Trust

(1) £17,500 in support of Dr K. E. Webster's research in the Department of Anatomy and Embryology.

(2) £3,500 for a study in the Department of Anatomy and Embryology of convergence of different types of afferent peripheral fibre on to single central cells.

(3) £1,710 for a study in the Department of Biophysics of the effect which nerves exert upon muscle fibres.

(4) £1,929 for a research fellowship in the sub-Department of History of Medicine.

(5) £3,695 for a study in the Department of Human Genetics and Biometry of enzymes in relation to embryological differentiation.

(6) £2,115 for a research training scholarship in the Department of Human Genetics and Biometry.

(7) £2,060 for a study in the Department of Pharmacology of biochemical evidence for secretion of histamine by exocytosis from the perfused guinea-pig lung.

(8) £6,780 for a fellowship in the Department of Physiology.

The Wolfson Foundation

£85,000 to finance the building of a Student Health Centre.

BENEFACTIONS AND DONATIONS TO THE LIBRARY

Dr Alex Comfort

A gift of 85 volumes, mostly books of verse of the 1940s to the 1960s, many of them inscribed by the author or containing autograph letters.

Dr G. M. Gathorne-Hardy

A gift of his collection of 550 Scandinavian books, including several rare volumes and some precious dedication copies, particularly from Norwegian authors.

Sir Bernard Waley-Cohen, bt

The deposit on indefinite loan of the library, of some 1,200 volumes, of his

cousin, the late Sir Herbert Cohen, BT., O.B.E., T.D. This includes, among other useful material, a complete set of *Law Reports*, and already forms the basis of a Faculty of Laws library in the Faculty's quarters in Endsleigh Gardens.

MRS K. B. WILLIAMS

A gift of 75 volumes to the library in the Department of Town Planning.

APPENDIX XIV

COLLEGE ACCOUNTS 1968–69

The Balance Sheet and the Income and Expenditure Account for the year will be found on pages 132–135.

BALANCE SHEET

LIABILITIES

The Capital Account increased by £2,754,182, which is mainly attributable to the following major items: New Chemistry Building (£1,134,143), Wolfson House (£525,416), Central Collegiate Building (£517,566), Ifor Evans Hall (£378,520) and the Engineering Building Stage IV (£191,177). All large capital schemes, apart from Ramsay Hall extension and the second phase of the Whitcher Place development, are now reflected in the Balance Sheet.

ASSETS

Freehold and Leasehold Land and Buildings increased by £2,795,555, including the acquisitions shown above.

TRUST FUNDS

The College holds endowments in the form of 197 separate trust funds with a total value of £1,358,939. The funds yield a total annual income of £91,000.

INCOME AND EXPENDITURE

The income for the year exceeded the expenditure by £28,690, in comparison with a surplus of £118,884 in the previous year. The need to contain expenditure of a recurrent nature in this, the second year of the Quinquennium 1967–72, is referred to in the opening paragraphs of the Report.

Income exceeded that for 1967–68 by £470,855, of which £107,087 represented increased grants from the Court of the University. Fees increased by £34,566, due to the rise in the number of students. Grants for research were £184,655 higher than in the previous year exceeding £1 million for the first time. Selective Employment Tax (wholly recovered) increased by £69,903.

Expenditure was £561,049 more than in 1967–68. Of this sum £393,956 was spent on academic departments. Maintenance of Premises cost an additional £71,325, including an extra £13,416 for rates following the occupation of new accommodation.

Income and expenditure under the main classifications in 1968–69, as compared with 1967–68 and with the corresponding year of the previous quinquennium, are shown in the following table.

EXPENDITURE	1963–64 £	%	1967–68 £	%	1968–69 £	%
Salaries and Pensions of Teaching Staff..	1,314,939	39·0	2,044,597	36·7	2,189,104	35·7
Departmental Expenses, including Library	806,912	24·0	1,300,953	23·3	1,313,474	21·4
Research Grants ..	509,500	15·1	838,376	15·0	1,023,031	16·7
Maintenance of Premises	438,960	13·0	800,904	14·4	894,309	14·6
Administration ..	205,658	6·1	327,544	5·9	361,448	5·9
Selective Employment Tax	—	—	117,021	2·1	186,924	3·0
Other	95,068	2·8	142,414	2·6	164,568	2·7
	£3,371,037	100·0	£5,571,809	100·0	£6,132,858	100·0
INCOME						
Endowments ..	57,997	1·7	79,776	1·4	78,963	1·3
Grants	2,501,323	74·2	4,080,892	71·9	4,187,979	68·0
Donations	30,643	0·9	80,321	1·4	137,646	2·2
Fees	237,425	7·0	352,270	6·2	386,836	6·3
Grants for Research	509,500	15·1	838,376	14·7	1,023,031	16·6
Research Training Support Grants ..	—	—	42,880	0·7	45,101	0·7
Selective Employment Tax	—	—	117,021	2·0	186,924	3·0
Other	36,715	1·1	99,157	1·7	115,068	1·9
	£3,373,603	100·0	£5,690,693	100·0	£6,161,548	100·0

EXTRA-BUDGETARY ACTIVITIES

The College administers the finances of many research projects supported from outside sources. 383 were being pursued actively at 31 July 1969. Income and expenditure rose from £838,376 in 1967–68 to £1,023,031 in 1968–69.

CAPITAL GRANTS

Capital grants made during the year 1968–69 were as follows:	£
Conversion of Chaucer House and former National Central Library:	
Furniture and equipment	19,971
Adaptations consequent upon Conversion of Anatomy Dissecting Room:	
Professional fees	3,200
Furniture and equipment	4,391

	£
Conversion of 4–8 Endsleigh Gardens basement for lecture and seminar rooms:	
Professional fees	687
Furniture and equipment	3,959
New Building at 2–10 Euston Buildings for Eugenics, Biometry and Genetics:	
Professional fees	4,416
Furniture and equipment	29,175
Alterations in the Department of Zoology and Comparative Anatomy:	
Professional fees	295
Extension to Aquarium in Department of Zoology and Comparative Anatomy: Professional fees	1,313
Adaptations to 19 Duke's Road for teaching and research: Professional fees	740
Alterations for Anatomy and Biological Sciences following move to D. M. S. Watson Library:	
Professional fees	5,609
Furniture and equipment	5,967
Chemistry Building, Stage I:	
Professional fees	80,966
Furniture and equipment	47,872
Furniture	2,589
Engineering Building, Stage IV: Professional fees	14,532
Conversion of Anatomy Museum:	
Professional fees	9,617
Furniture and equipment	6,018
New Transformer Chamber: Professional fees..	4,275
Central Collegiate Building, Stage I: Professional fees	41,628
Adaptation of Holmbury House for Department of Physics: Building work	1,712
Purchase of Lease of 1 Colosseum Terrace: Professional fees ..	75
Purchase of Lease of 11 Albany Street: Professional fees	49
Alterations to South Quadrangle hut to provide administrative accommodation:	
Building work	2,200
Professional fees	270
Furniture and equipment	1,774
Provision of additional accommodation for increased student intake (Medical) from 1964–65: Professional fees	9,356
Conversion of former Genetics space for Departments of Architecture and Statistics:	
Building work	2,444
Furniture	331
Alterations for seminar room in Department of Pharmacology: Building work	217
Provision of vermin-proof store in Faculty of Medical Sciences: Building work	386
Alterations to teaching area in Department of Geology: Building work	295
Partitioning of rooms on first floor of New Engineering Building: Building work	920

	£
Conversion of balance room to office/research area for Department of Chemistry:	
Building work	742
Furniture	318
Alterations to Refectory: Furniture	24,831
	£333,140

SCHOLARSHIPS AND PRIZES

Expenditure amounted to £39,537. Awards were made as under:

	Undergraduate	*Postgraduate*
	£	£
From Endowments	2,080	7,434
,, Donations	—	24,429
,, General Income	4,344	1,250
	£6,424	£33,113

31–7–68		
£		£
11,640,026	CAPITAL ACCOUNT	14,394,208
22,334	REDEMPTION FUNDS	23,867
104,862	LOANS	94,141
11,767,222		14,512,216
773,938	RESERVES AND SUNDRY FUNDS	917,830
384,670	UNEXPENDED BALANCES	448,066
457,309	CURRENT LIABILITIES	597,153
13,383,139		16,475,265
1,302,029	TRUST FUNDS	1,358,939
£14,685,168		£17,834,204

NOTE

The College freehold properties were revalued during 1959 on the basis of current land values and estimated building costs, by the College authorities with professional assistance from Quantity Surveyors. Accordingly these properties are stated at the 1959 valuation with subsequent additions at estimated cost.
No value is included in capital account for furniture and equipment.

31–7–68 £		£
11,386,951	FREEHOLD LAND AND BUILDINGS—see note below	14,192,323
454,052	LEASEHOLD LAND AND BUILDINGS	444,235
11,841,003		14,636,558
204,045	CAPITAL AND OTHER WORKS IN PROGRESS *less* capital grants and other capital receipts	108,820
391,123	INVESTMENTS .. .. (*Market Value of Stock Exchange Securities and other Investments at 31 July 1969, £347,183; 31 July 1968 £409,901*)	393,554
406,131	EXPENDITURE RECOVERABLE FROM FUTURE GRANTS	486,359
540,837	CURRENT ASSETS INCLUDING PREPAYMENTS	849,974
13,383,139		16,475,265
1,302,029	TRUST FUNDS	1,358,939
£14,685,168		£17,834,204

1967–68 £	EXPENDITURE		£	£
	ADMINISTRATION			
240,979	Salaries		269,626	
70,501	Advertising, Printing, Stationery, Postage and Telephone		81,717	
16,064	Other Expenses (including Professional Fees)		10,105	
(327,544)				361,448
	ACADEMIC DEPARTMENTS			
2,019,630	Salaries of Teaching Staff		2,163,125	
572,065	Departmental Wages: Technical Staff		597,212	
127,279	Secretarial Staff		134,017	
420,806	Departmental and Laboratory Maintenance		447,803	
90,726	Libraries: Salaries	99,147		
61,714	General Expenditure	63,906		
			163,053	
838,376	Research Expenditure covered by grants on Research Contracts		1,023,031	
18,398	Other expenditure		14,709	
(4,148,994)				4,542,950
	MAINTENANCE OF PREMISES			
180,266	Rates		193,682	
9,535	Insurance		11,097	
	Rent and other payments for use of buildings:			
11,372	Halls of Residence	10,636		
65,328	Other Buildings	82,596		
			93,232	
140,544	Heat, Light, Water and Power		141,869	
	Repairs and Maintenance of Buildings including amounts set			
299,414	aside for long-term maintenance		337,088	
74,398	Wages of Porters and Attendants		81,973	
15,789	Other Expenses		9,030	
(796,646)				867,97
	GENERAL EDUCATIONAL			
227	Examinations		822	
38,079	Scholarships and Prizes		39,537	
1,170	Public Lectures		1,212	
5,500	Staff Attendance at Conferences		4,500	
(44,976)				46,071
	STUDENT FACILITIES AND AMENITIES			
44,890	Grant to Students Union (including Collegiate Theatre)		56,765	
5,241	Salaries: Wardens of Halls of Residence		7,551	
6,565	Student Health Service		7,721	
5,824	Students' Purposes Fund		4,835	
200	Crabb Robinson Fund		240	
336	Ealing Hall Fund		342	
5,300	Central Admissions Scheme		5,131	
—	Miscellaneous		265	
4,796	Careers Office		4,844	
(73,152)				87,694
	MISCELLANEOUS			
24,967	Staff Pensions		25,979	
2,142	Grants from Benevolent Fund		3,104	
4,456	Interest on Overdrafts, etc.		2,426	
9,054	Sundries		12,965	
	Deficits on Income and Expenditure Account for Halls of Residence, Refectories, etc.			
2,500	Refectory: College Subvention	2,800		
2,134	Deficit as at 1 August 1968 written off	5,508		
			8,308	
117,021	Selective Employment Tax		186,924	
(162,274)				239,706
	CAPITAL EXPENDITURE MET FROM INCOME			
2,000	Holmbury House		2,000	
2,000	R.T.B. House		2,000	
(4,000)				4,000
	ALLOCATION TO (FROM) RESERVES AT 31 JULY 1969			
—	College Fund			20,000
	Revenue Grants:			
53,910	Departmental Maintenance		7,913	
−940	Library		5,602	
17,700	Repairs and Maintenance of Buildings		19,880	
16,040	Petty Works		20,198	
(86,710)				53,593
16,670	Former Research Councils (unexpended balance)			12,805
£5,660,966				£6,236,238
118,884	EXCESS OF INCOME OVER EXPENDITURE FOR THE YEAR			28,690
£5,779,850				£6,264,928
119,804	Balance, 31 July 1969, carried to Balance Sheet			148,494
£119,804				£148,494

1967–68 £	INCOME	£	£
	ENDOWMENTS		
79,776	Income of Trust Funds appropriated for purposes specified by Trust against expenditure included opposite		78,963
	DONATIONS AND SUBSCRIPTIONS: Appropriated for:		
15,245	Special Purposes	16,786	
19,983	Scholarships and Bursaries	24,429	
40,619	Salaries and Superannuation	60,096	
4,474	Departmental and Laboratory Maintenance..	36,335	
(80,321)			137,646
	GRANTS FROM UNIVERSITY COURT		
(3,771,000)	General		3,711,000
	Earmarked:		
—	Academic salary increases 1968 Scheme	130,029	
102,105	Former Research Councils	102,105	
180,266	Rates	193,573	
425	Hayter Committee	995	
25,000	Supplementary Maintenance Grant	45,000	
1,646	Parry	4,827	
450	Latin American Studies	450	
(309,892)			476,979
42,880	RESEARCH COUNCIL TRAINING SUPPORT GRANTS		45,101
352,270	FEES		386,836
838,376	GRANTS FOR RESEARCH, including research contracts		1,023,031
33,649	CONTRIBUTIONS FOR SERVICES RENDERED		26,829
	SURPLUS FROM INCOME AND EXPENDITURE ACCOUNTS FOR COLLEGE PROPERTIES, HALLS OF RESIDENCE, REFECTORIES, ETC.		
17,047	College Properties		18,467
48,461	OTHER ITEMS		69,772
117,021	SELECTIVE EMPLOYMENT TAX		186,924
	ALLOCATIONS FROM RESERVE AT 1 AUGUST 1968		
	Revenue Grants:		
62,641	Departmental Maintenance	53,910	
−2,966	Library General Expenditure	−940	
13,790	Repairs and Maintenance of Buildings	17,700	
15,692	Petty Works	16,040	
			86,710
—	Former Research Councils Grant		16,670
£5,779,850			£6,264,928
119,804	Balance as at 1 August 1968		119,804
—	Excess of Income over Expenditure for the year after allocations (net) from Reserves of £16,982 (£2,447 (net) from Reserves in 1967–68)		28,690
£119,804			£148,494

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